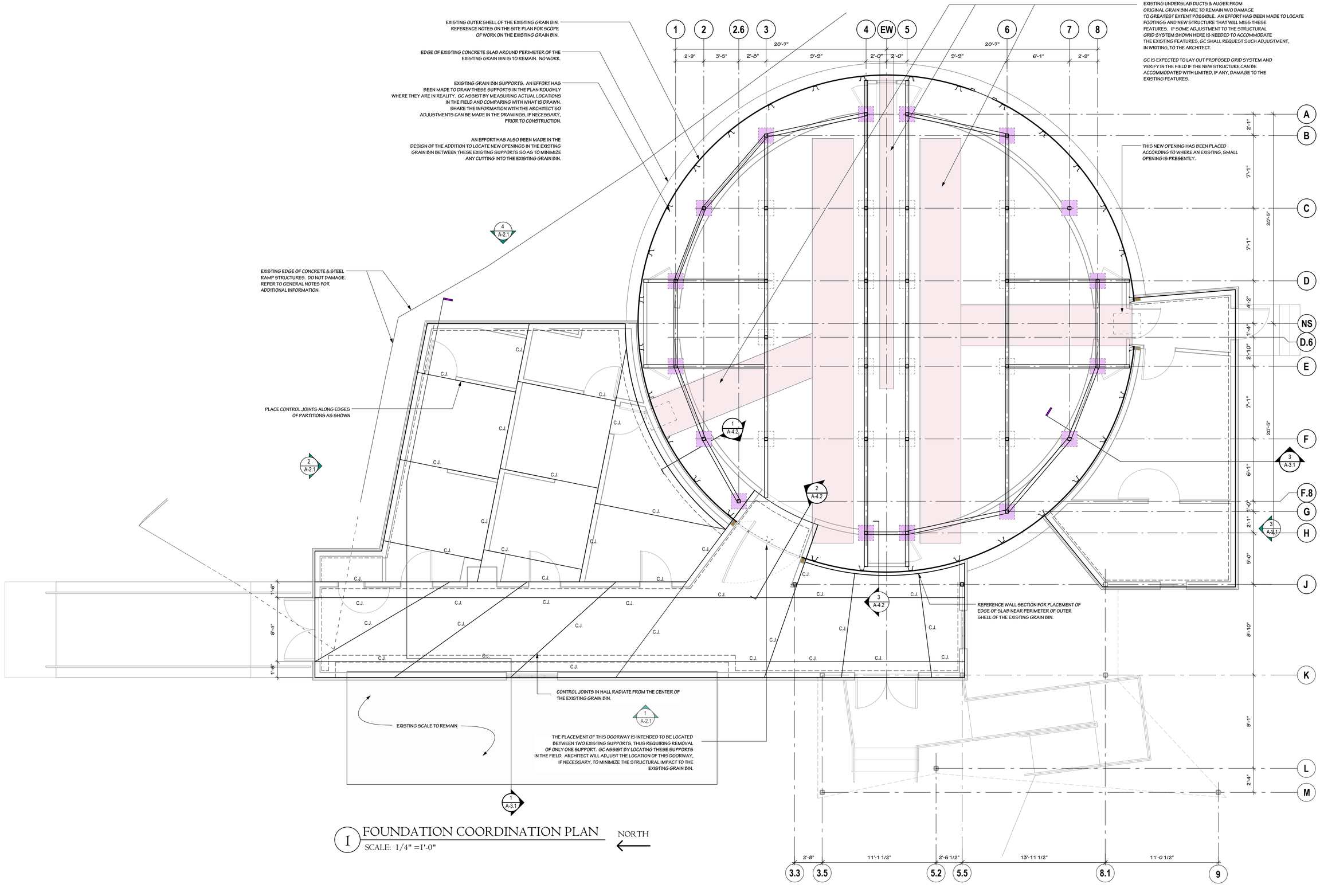

1 FOUNDATION COORDINATION PLAN

SCALE: 1/4" =1'-0"

NORTH

REVIVAL ARCHITECTURE
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REGISTERED ARCHITECT — REVIVAL ARCHITECTURE, LLC — LICENSED ARCHITECT — STATE OF ARKANSAS

Project Name:
SOUTHERN TENANT FARMERS UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents:
FOUNDATION COORDINATION PLAN

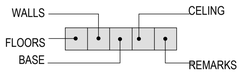
Issue Date:
March 1, 2024

Revisions:
⚠ RE-BID April 19,2024

Sheet No:
A-0.1

FINISH SCHEDULE LEGEND

NOTE: NO FINISH WORK IS REQUIRED IN ROOMS NOT SHOWN WITH FINISH SCHEDULE LEGEND



FLOORS: A: POLISHED CONCRETE
B: SHEET VINYL, CUSTOM

WALLS: A: PAINTED GYP BD.
B: CURVED, CORREGATED PANELS
C: FRP PANELS

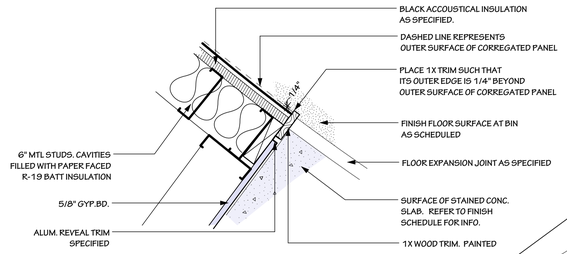
BASE: A: PAINTED WOOD. REFERENCE DETAIL.
B: 4" RUBBER
C: NONE

CEILING: A: PAINTED GYP BD.
B: UNDERSIDE OF ROOF PANEL EXPOSED

REMARKS: A: EPOXY PAINT ON ALL WALLS.
B: INTERSTITIAL "GAP" SPACES RECEIVE NO FINISH. OTHER THAN GENERAL CLEANING, SURFACES EXPOSED AS-IS.

GENERAL NOTE:

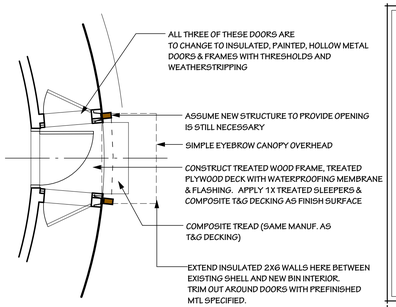
THE NEW CONCRETE SLAB THROUGHOUT IS TO BE FINISHED & POLISHED AS THE FINAL, FINISH SURFACE. REFER TO SPECIFICATIONS. CONTRACTOR AND ALL SUBCONTRACTORS ARE TO BE AWARE AND TO TAKE PRECAUTIONS IN PROTECTING THE SLAB FROM DAMAGE AND STAINING DURING CONSTRUCTION. NO DRINKS NOR TOBACCO PRODUCTS WILL BE PERMITTED WITHIN THE NEW ADDITION.



3 PLAN DETAIL

SCALE: 1 1/2 =1'-0"

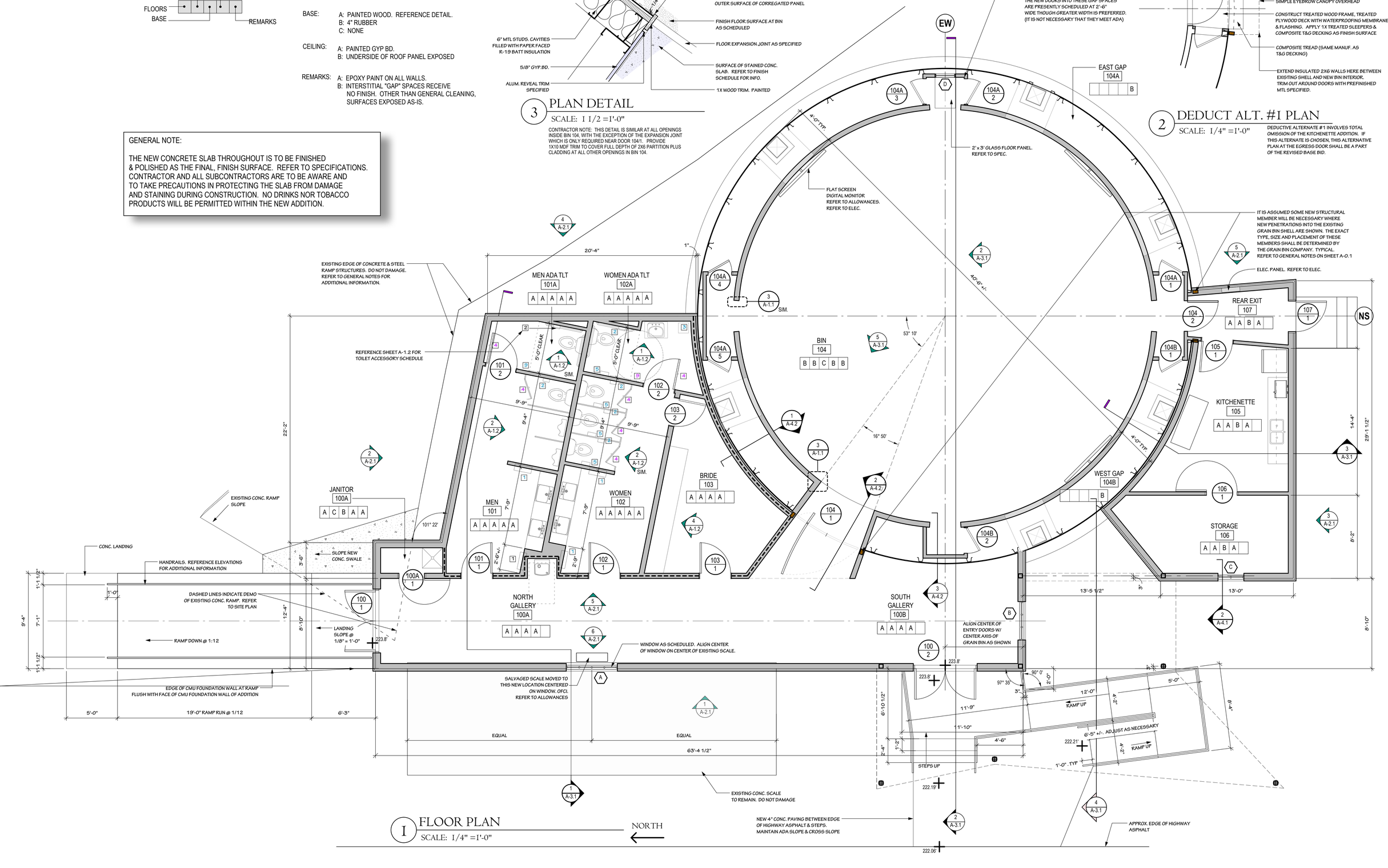
CONTRACTOR NOTE: THIS DETAIL IS SIMILAR AT ALL OPENINGS INSIDE BIN 104, WITH THE EXCEPTION OF THE EXPANSION JOINT WHICH IS ONLY REQUIRED NEAR DOOR 104/1. PROVIDE 1X10 MDF TRIM TO COVER FULL DEPTH OF 2X6 PARTITION PLUS CLADDING AT ALL OTHER OPENINGS IN BIN 104.



2 DEDUCT ALT. #1 PLAN

SCALE: 1/4" =1'-0"

DEDUCTIVE ALTERNATE #1 INVOLVES TOTAL OMISSION OF THE KITCHENETTE ADDITION. IF THIS ALTERNATE IS CHOSEN, THIS ALTERNATIVE PLAN AT THE EGRESS DOOR SHALL BE A PART OF THE REVISED BASE BID.



I FLOOR PLAN

SCALE: 1/4" =1'-0"

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REGISTERED ARCHITECT REVIVAL ARCHITECTURE LICENSED STATE OF ARKANSAS

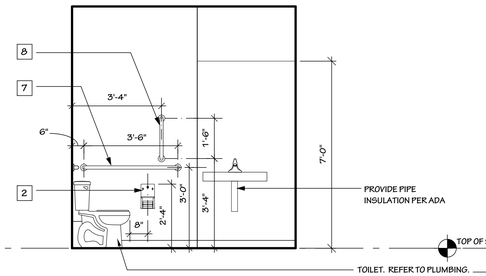
Project Name:
SOUTHERN TENANT FARMERS UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

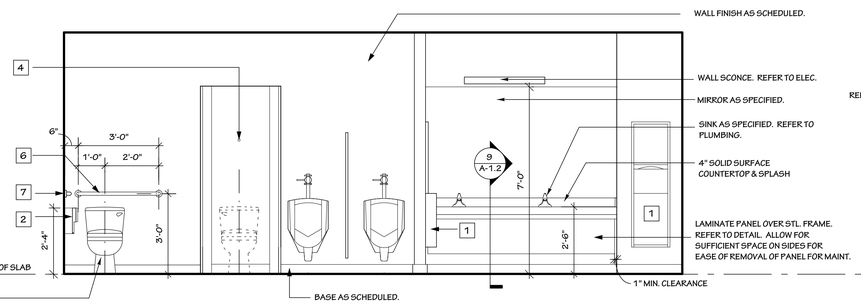
Sheet Contents:
FLOOR PLAN & FINISH SCHEDULE, DETAILS

Issue Date:
March 1, 2024

Revisions:
1 RE-BID April 19,2024

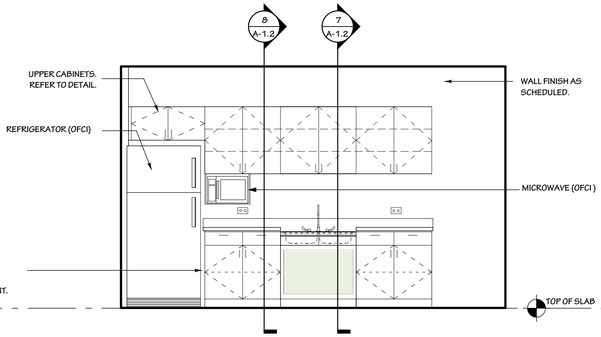
Sheet No:
A-I.I





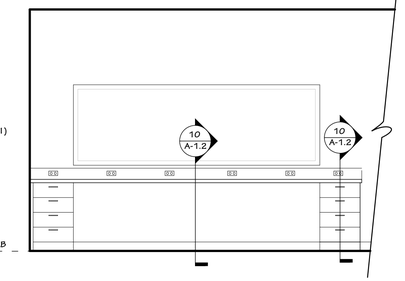
1 INT. ELEVATION @ WOMEN'S ADA STALL
SCALE: 3/8" = 1'-0"

2 INT. ELEVATION @ MEN'S (WOMEN'S SIM.)
SCALE: 3/8" = 1'-0"
MEN'S IS SIM. (MINUS SINK)

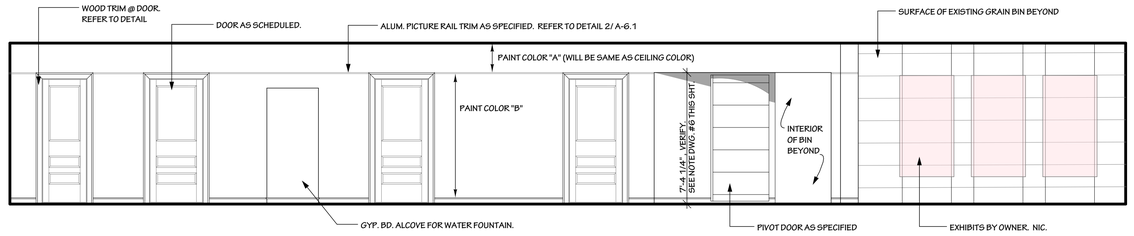


3 INT. ELEVATION @ KITCHENETTE
SCALE: 3/8" = 1'-0"

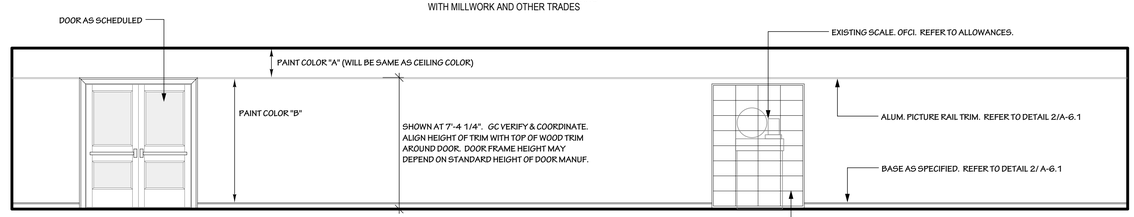
CONTRACTOR SHALL ASSIST IN VERIFYING NECESSARY CLEARANCES FROM OWNER SELECTED APPLIANCES & COORDINATING WITH MILLWORK AND OTHER TRADES



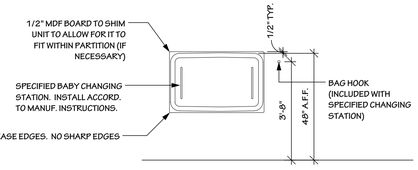
4 INT. ELEVATION @ BRIDE
SCALE: 3/8" = 1'-0"



5 INT. ELEVATION @ GALLERY LOOKING EAST
SCALE: 1/4" =1'-0"

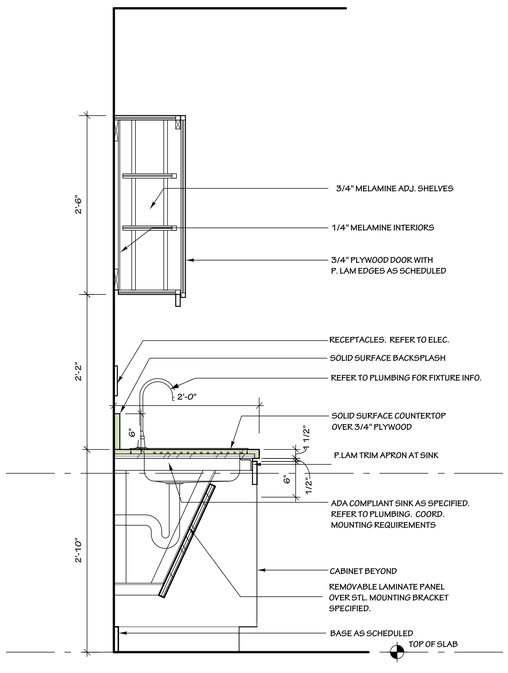


6 INT. ELEVATION @ GALLERY LOOKING WEST
SCALE: 1/4" =1'-0"

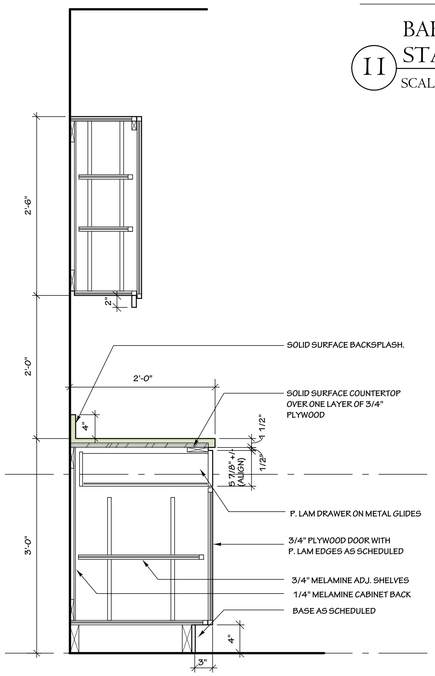


BABY CHANGING STATION ELEVATION

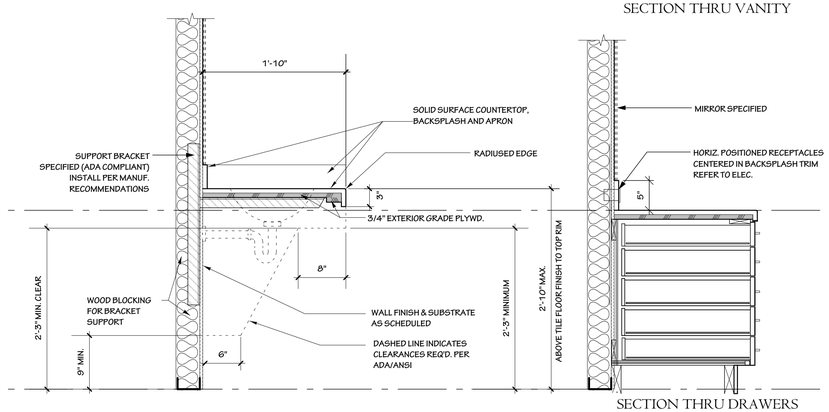
11 SCALE: 3/8" = 1'-0"



7 CABINET SECTION
SCALE: 1" = 1'-0"



8 CABINET SECTION
SCALE: 1" = 1'-0"



9 LAVATORY SECTION
SCALE: 1" = 1'-0"

SECTION THRU VANITY

SECTION THRU DRAWERS

10 VANITY SECTION
SCALE: 1" = 1'-0"

TOILET ACCESSORY SCHEDULE			
MARK	DESCRIPTION	MODEL #	MOUNT. HGT.
1	RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE	#B-3944	48" MAX. TO DISPENSER
2	SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER	#B-2888	28" A.F.F. TO TOP OF UNIT
3	FLOOR-STANDING WASTE RECEPTACLE, OPEN TOP	#B-2260	STORE SAFELY AND SET IN SPACE AT PUNCH LIST BUT NOT BEFORE TO PROTECT FROM DAMAGE.
4	COAT HOOK WITH BUMPER	#B-9541	MOUNT AT BACK OF PARTITION DOOR, 48" A.F.F IN ADA STALLS. 60" ALL OTHER STALLS.
5	SURFACE MOUNTED NAPKIN DISPOSAL	#B-254	30" A.F.F. TO TOP OF UNIT- SEE PLAN FOR WALL/PARTITION LOCATION
6	STAINLESS STEEL GRAB BAR CONCEALED MOUNT	#6806 x 36	33" A.F.F. TO CENTER OF UNIT. NOTE 2.
7	STAINLESS STEEL GRAB BAR CONCEALED MOUNT	#6806 x 42	33" A.F.F. TO CENTER OF UNIT. NOTE 2.
8	STAINLESS STEEL GRAB BAR CONCEALED MOUNT	#6806 x 18	VERTICAL MOUNT. NOTE 2. 39"-41" A.F.F. TO BOTTOM OF UNIT
9	KOALA HORIZONTAL WALL MOUNTED BABY CHANGING STATION- RECESSED	KB310-SSRE (STAINLESS)	48" A.F.F. TO TOP OF UNIT; NOTE 5
10	COUNTER MIRROR- FRAMELESS		CUSTOM SIZE WALL TO WALL. (VERIFY)

MODEL #'S REFER TO BOBRICK WASH ROOM EQUIPMENT, INC. UNLESS NOTED OTHERWISE
NOTE: LOCATE TO MEET ADA HEIGHT & CLEARANCE REQUIREMENTS

NOTE 1:
INSTALL 3 1/2" SOUND INSULATION BATTS IN INTERIOR WALLS AROUND MEN'S & WOMEN'S RESTROOMS & ALL NEW WALLS OF ALL RESTROOMS -TYPICAL.

NOTE 2:
PROVIDE/INSTALL BLOCKING FOR GRAB BAR SUPPORT-TYPICAL. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHERE A VERTICAL OR HORIZONTAL FORCE OF 250 LBS. IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE OR SUPPORTING STRUCTURE.

NOTE 3:
PROVIDE BLOCKING WITHIN WALL FOR SUPPORT OF TOILET PARTITIONS & MIRRORS.

NOTE 4:
TOILET STALL DOORS TO BE SELF CLOSING AT ACCESSIBLE STALLS.

NOTE 5:
UNIT IS 4" DEPTH. PROVIDE 1/2" MDF PANEL TO SHIM OUT FIXTURE TO FIT INSIDE WALL. REFER TO DETAIL.

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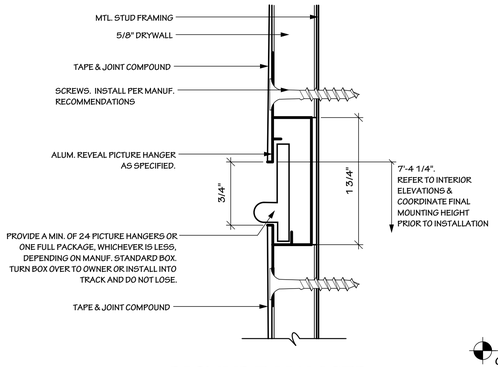
REGISTERED ARCHITECT
REVIVAL ARCHITECTURE
STATE OF ARKANSAS

Project Name:
SOUTHERN TENANT FARMERS UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents:
INTERIOR ELEVATIONS & DETAILS

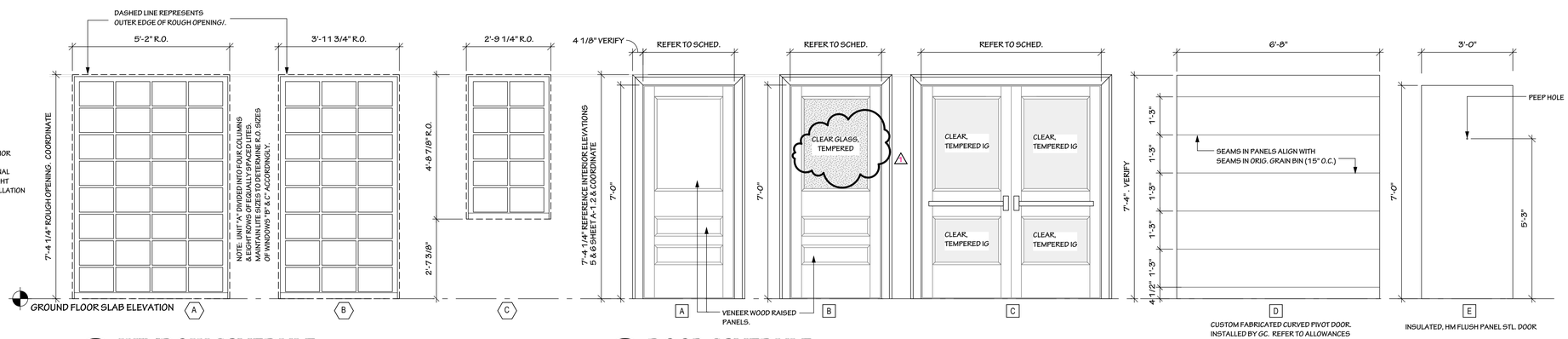
Issue Date:
March 1, 2024
Revisions:
1 RE-BID April 19,2024

Sheet No:
A-1.2



1 PICTURE HANGER REVEAL DETAIL

FULL SCALE



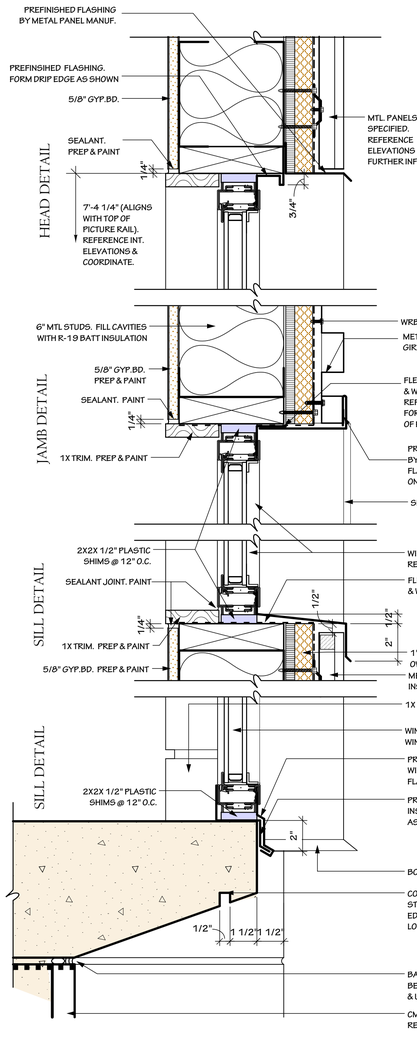
2 WINDOW SCHEDULE

SCALE: 1/2" = 1'-0"

3 DOOR SCHEDULE

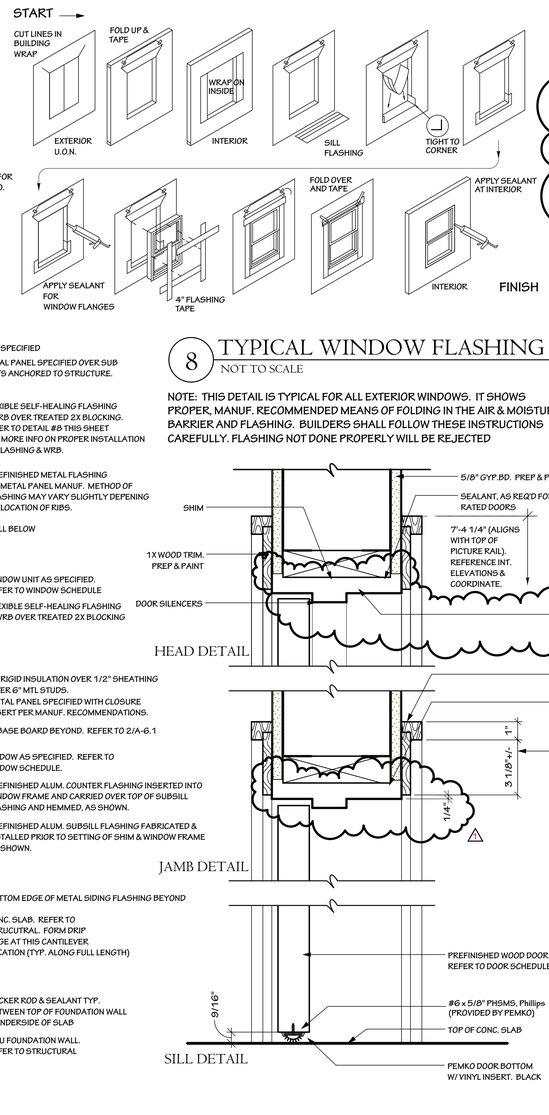
SCALE: 1/2" = 1'-0"

DOOR NUMBER	ROOM	ROOM NUMBER	DOOR KEY	SIZE (WIDTH X HEIGHT)	TYPE	FIRE RATING	FRAME TYPE	HARDWARE
100/1	NORTH GALLERY	100A	C	6'-0" X 7'-0"	ACW	-	ACW	HDW-1
100/2	SOUTH GALLERY	100B	C	6'-0" X 7'-0"	ACW	-	ACW	HDW-1
100A/1	JANITOR	100A	A	3'-0" X 7'-0"	HM	20 MIN	WOOD	HDW-2
101/1	MEN	101	A	3'-0" X 7'-0"	HM	20 MIN	WOOD	HDW-3
101/2	MEN ADA TLT	101A	A	3'-0" X 7'-0"	HM	-	WOOD	HDW-4
102/1	WOMEN	102	A	3'-0" X 7'-0"	HM	20 MIN	WOOD	HDW-3
102/2	WOMEN ADA TLT	102A	A	3'-0" X 7'-0"	HM	-	WOOD	HDW-4
103/1	BRIDE	103	A	3'-0" X 7'-0"	HM	20 MIN	WOOD	HDW-5
103/2	BRIDE	103	A	2'-8" X 7'-0"	HM	-	WOOD	HDW-5
104/1	BIN	104	D	6'-8"X 7'-4"	CUSTOM. REFER TO ALLOWANCES			
104/2	BIN	104	B	3'-0" X 7'-0"	HM	-	WOOD	HDW-6
104A/1	EAST GAP	104A	A	2'-6" X 7'-0"	HM	-	WOOD	HDW-7
104A/2	EAST GAP	104A	A	2'-6" X 7'-0"	HM	-	WOOD	HDW-7
104A/3	EAST GAP	104A	A	2'-6" X 7'-0"	HM	-	WOOD	HDW-7
104A/4	EAST GAP	104A	A	2'-6" X 7'-0"	HM	-	WOOD	HDW-7
104A/5	EAST GAP	104A	A	2'-6" X 7'-0"	HM	-	WOOD	HDW-7
104B/1	WEST GAP	104B	A	2'-6" X 7'-0"	HM	-	WOOD	HDW-7
104B/2	WEST GAP	104B	A	2'-6" X 7'-0"	HM	-	WOOD	HDW-7
105/1	KITCHENETTE	105	B	3'-0" X 7'-0"	HM	-	WOOD	HDW-2
106/1	STORAGE	106	A	3'-0" X 7'-0"	HM	-	WOOD	HDW-2
107/1	REAR EXIT	107	E	3'-0" X 7'-0"	HM	-	HM	HDW-8



4 WINDOW DETAILS

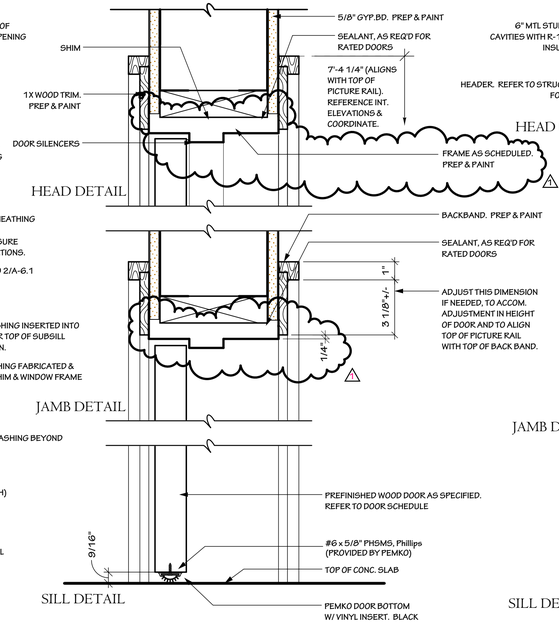
3" = 1'-0"



8 TYPICAL WINDOW FLASHING

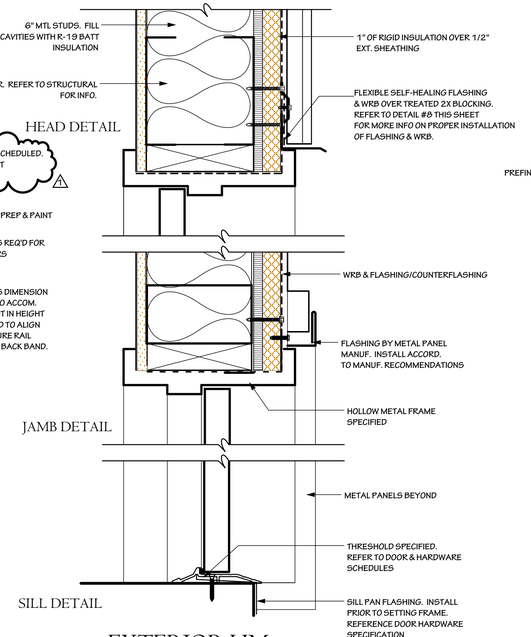
NOT TO SCALE

NOTE: THIS DETAIL IS TYPICAL FOR ALL EXTERIOR WINDOWS. IT SHOWS PROPER, MANUF. RECOMMENDED MEANS OF FOLDING IN THE AIR & MOISTURE BARRIER AND FLASHING. BUILDERS SHALL FOLLOW THESE INSTRUCTIONS CAREFULLY. FLASHING NOT DONE PROPERLY WILL BE REJECTED



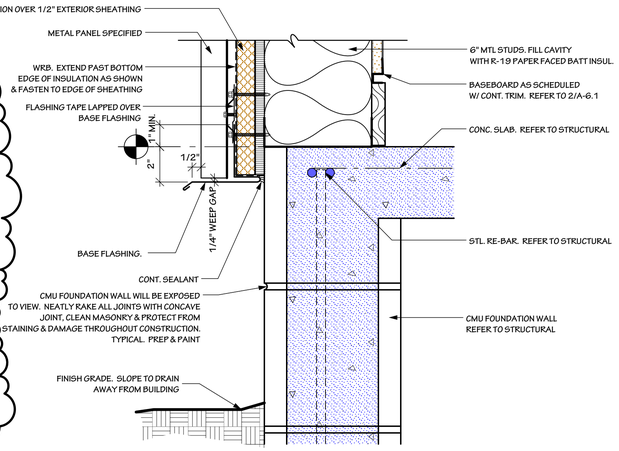
5 INTERIOR DOOR DETAILS

3" = 1'-0"



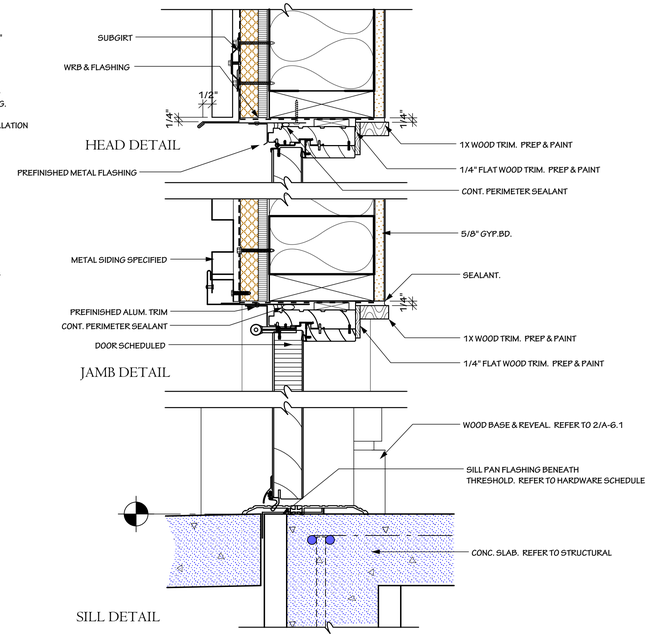
6 EXTERIOR HM DOOR DETAILS

3" = 1'-0"



9 EDGE OF SLAB DETAIL (TYP.)

SCALE: 3" =1'-0"



7 ENTRY DOOR DETAILS

3" = 1'-0"

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REGISTERED ARCHITECT
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LICENSED ARCHITECT
STATE OF ARKANSAS

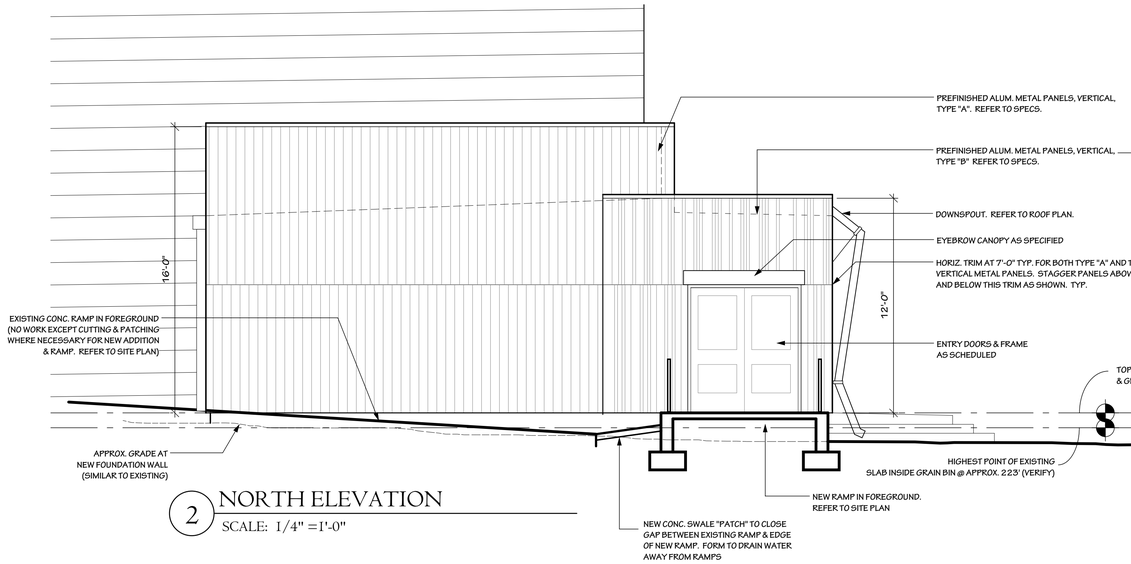
Project Name:
SOUTHERN TENANT FARMERS UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents:
WINDOW & DOOR SCHEDULES, DETAILS

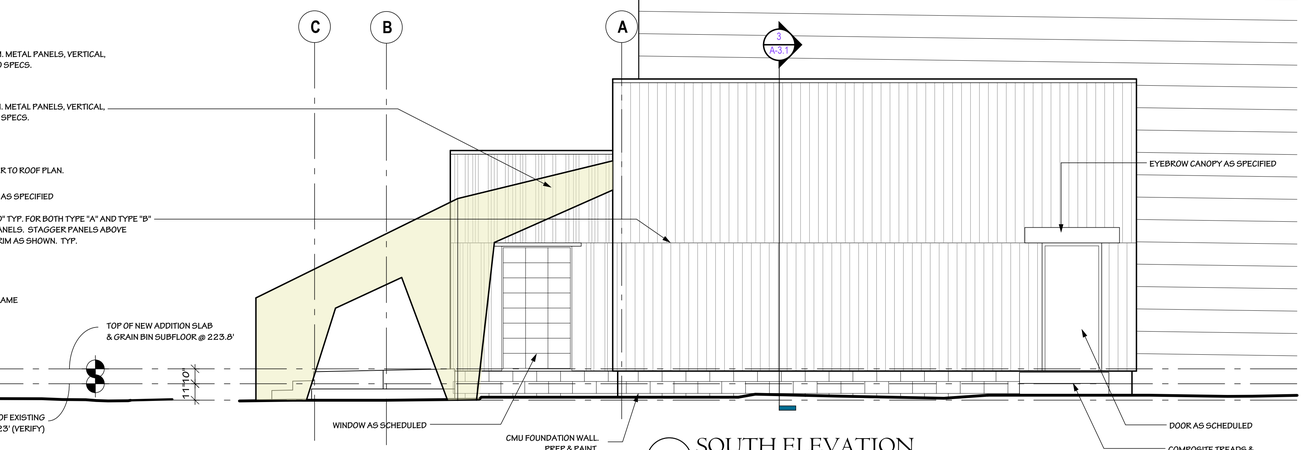
Issue Date:
March 1, 2024

Revisions:
1 RE-BID
April 19,2024

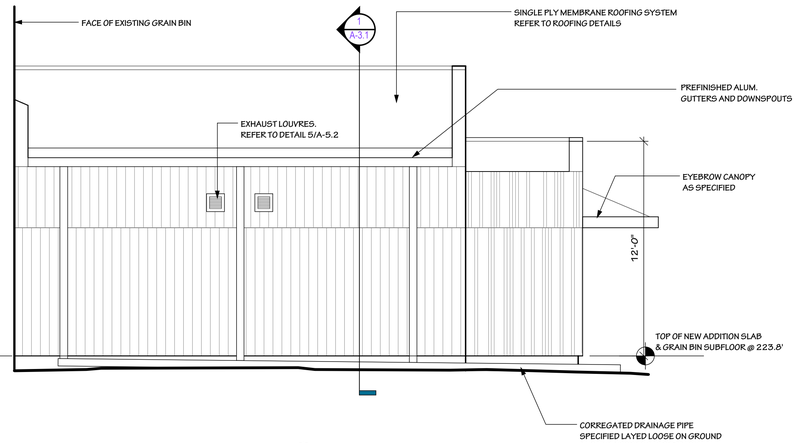
Sheet No:
A-1.3



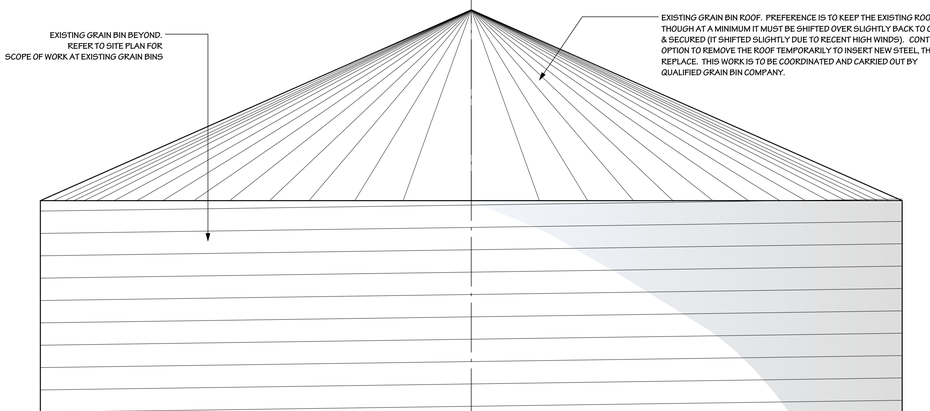
2 NORTH ELEVATION
SCALE: 1/4" =1'-0"

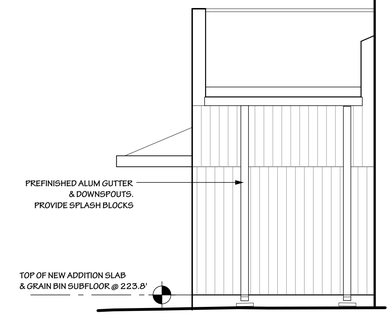


3 SOUTH ELEVATION
SCALE: 1/4" =1'-0"

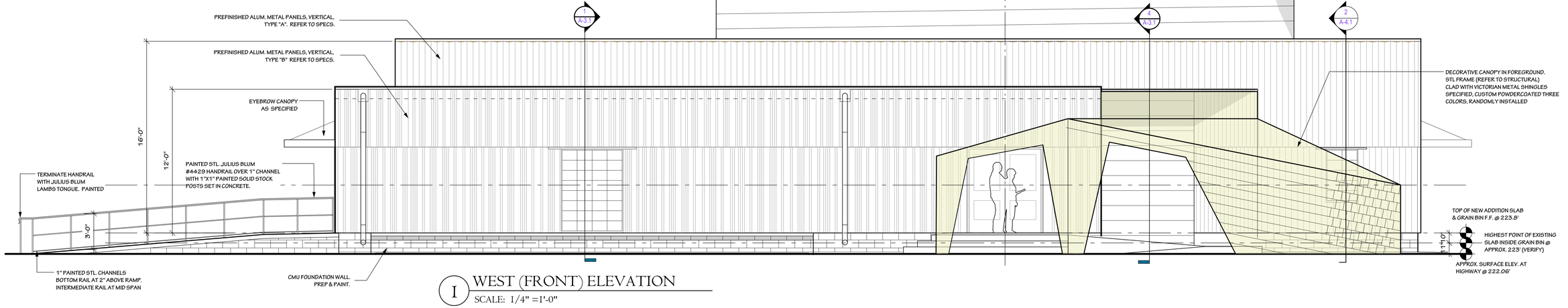


4 EAST ELEVATION @ RESTROOMS
SCALE: 1/4" =1'-0"





5 EAST ELEVATION @ KITCHENETTE
SCALE: 1/4" =1'-0"



1 WEST (FRONT) ELEVATION
SCALE: 1/4" =1'-0"

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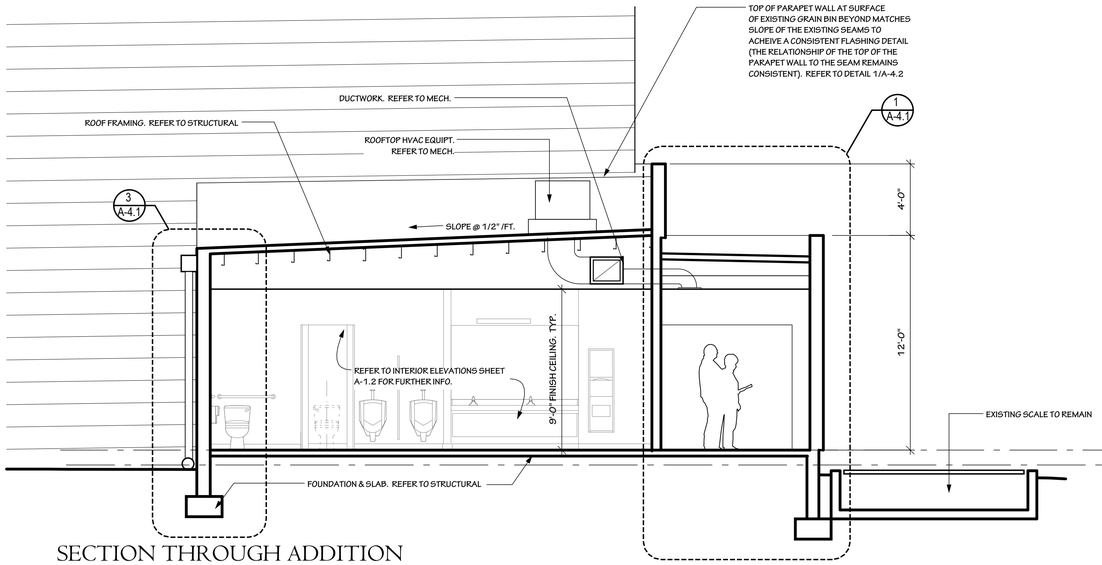
REGISTERED ARCHITECT REVIVAL ARCHITECTURE JAMES LEGGETT STATE OF ARKANSAS

Project Name: SOUTHERN TENANT FARMERS UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents: EXTERIOR ELEVATIONS

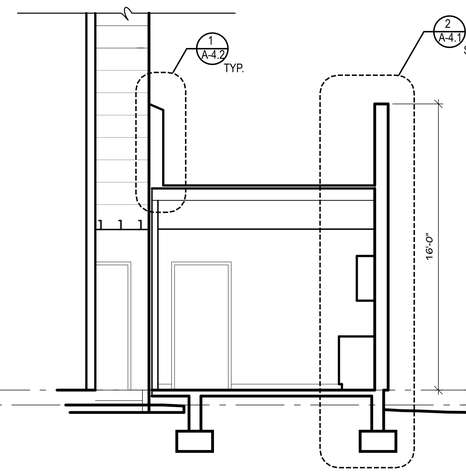
Issue Date: March 1, 2024
Revisions: RE-BID April 19,2024

Sheet No: A-2.1



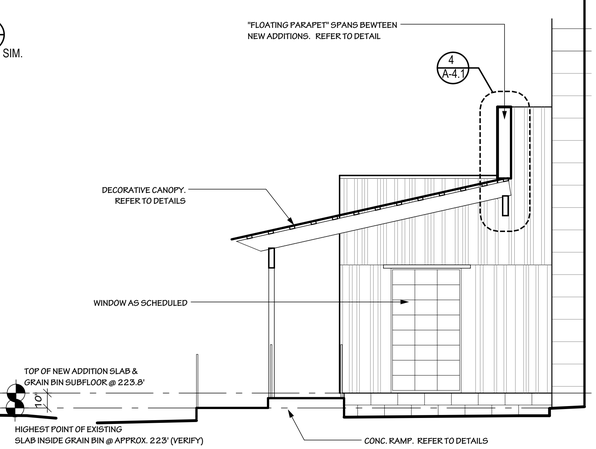
1 SECTION THROUGH ADDITION LOOKING SOUTH

SCALE: 1/4" =1'-0"



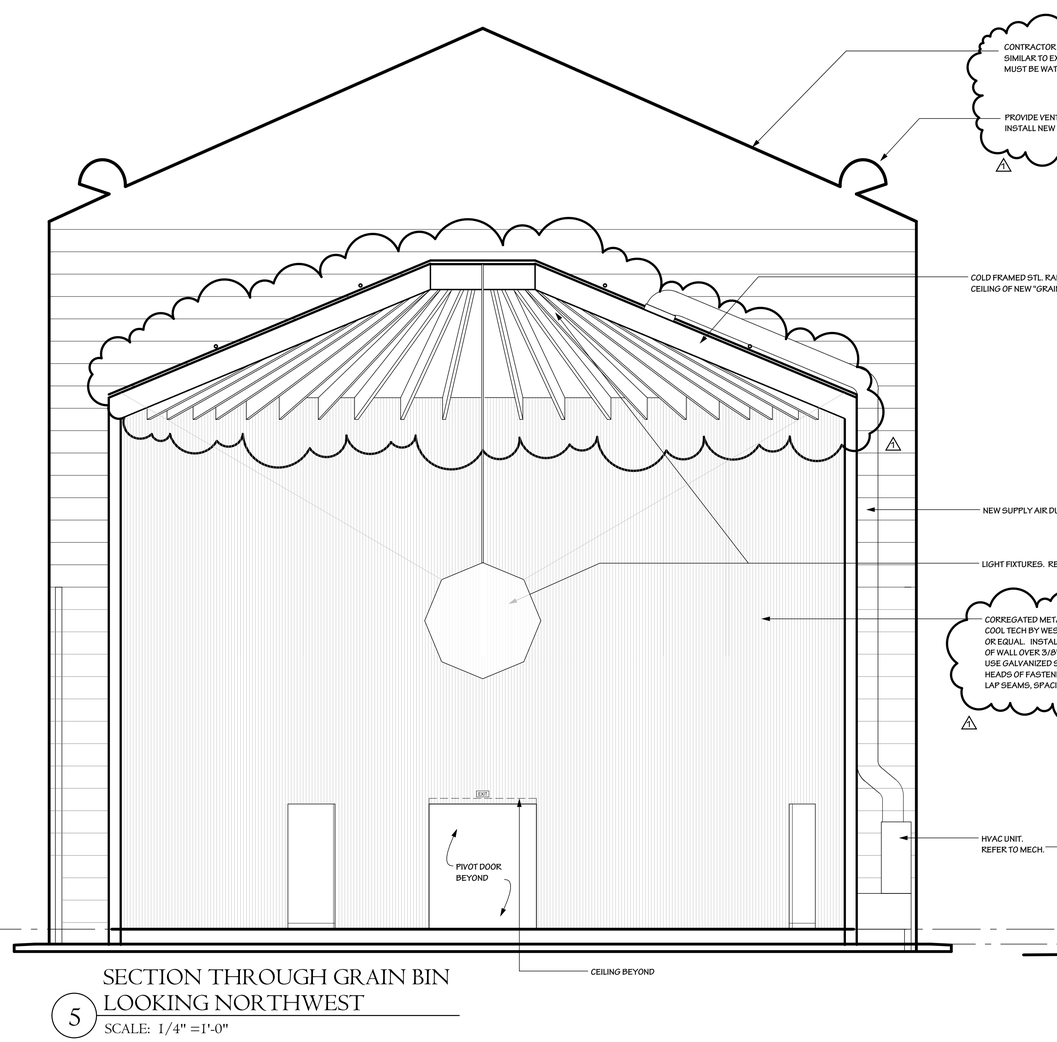
3 SECTION THROUGH KITCHENETTE LOOKING EAST

SCALE: 1/4" =1'-0"



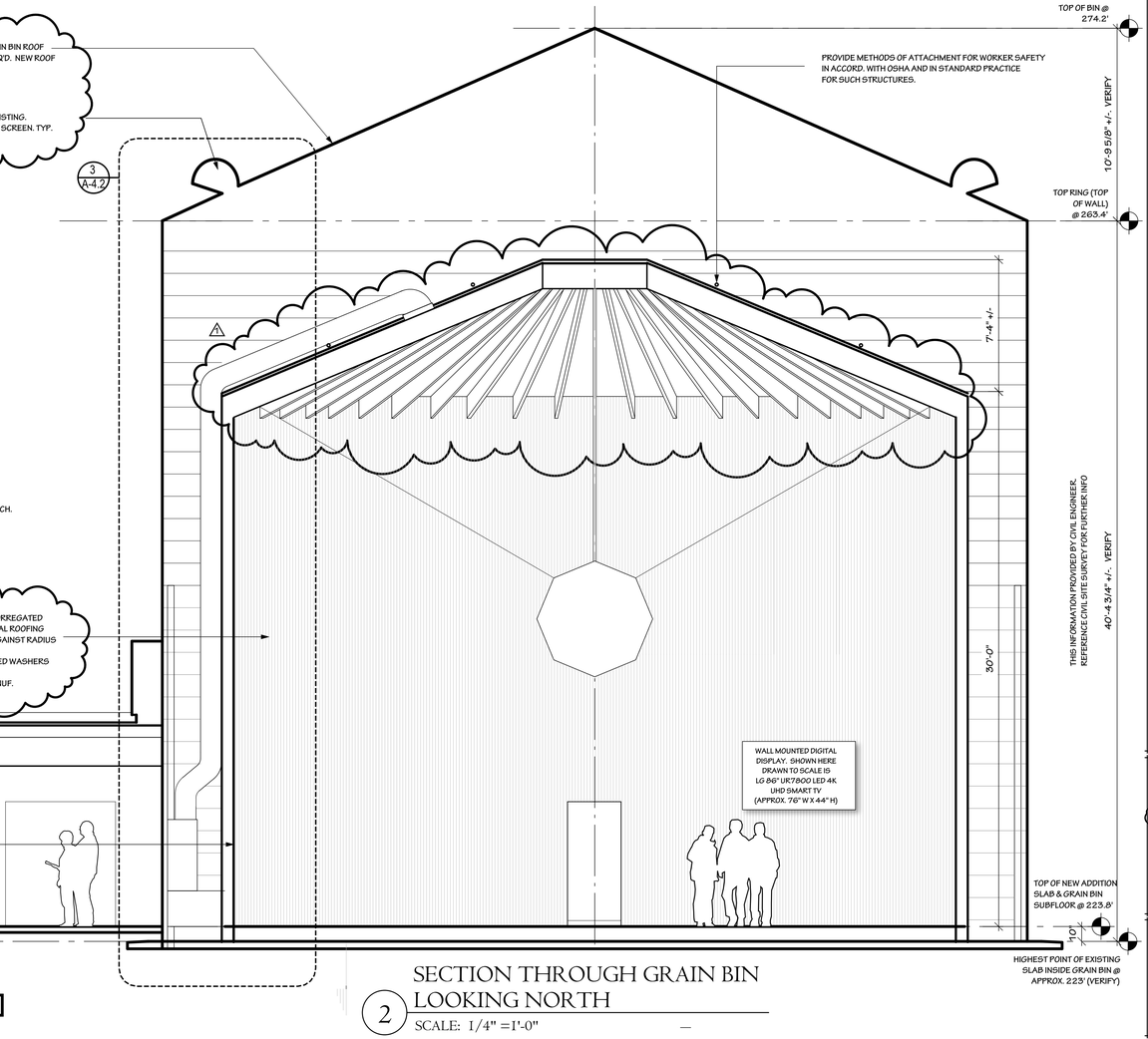
4 SECTION THROUGH DECORATIVE CANOPY LOOKING NORTH

SCALE: 1/4" =1'-0"



5 SECTION THROUGH GRAIN BIN LOOKING NORTHWEST

SCALE: 1/4" =1'-0"



2 SECTION THROUGH GRAIN BIN LOOKING NORTH

SCALE: 1/4" =1'-0"

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REGISTERED ARCHITECT REVIVAL ARCHITECTURE LICENSED ARCHITECT STATE OF ARKANSAS

Project Name:
SOUTHERN TENANT FARMERS UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents:
BUILDING SECTIONS

Issue Date:
March 1, 2024

Revisions:
1 RE-BID April 19,2024

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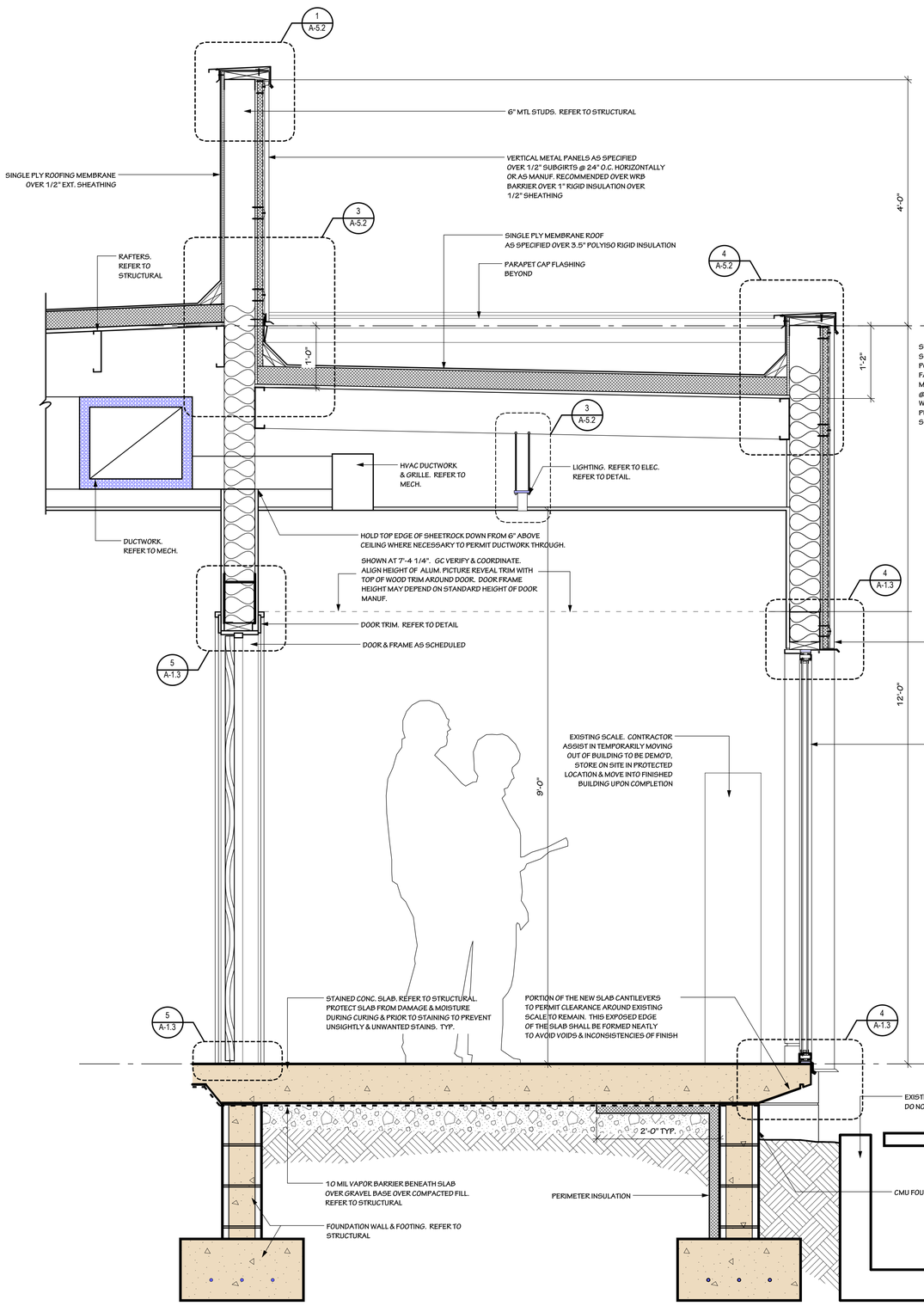
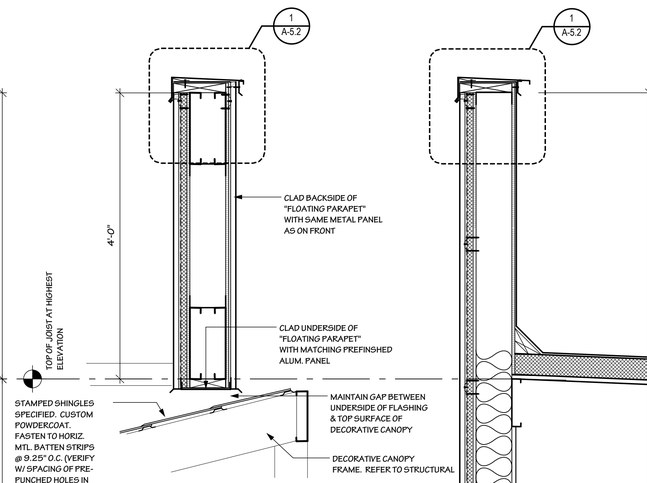
A-3.1



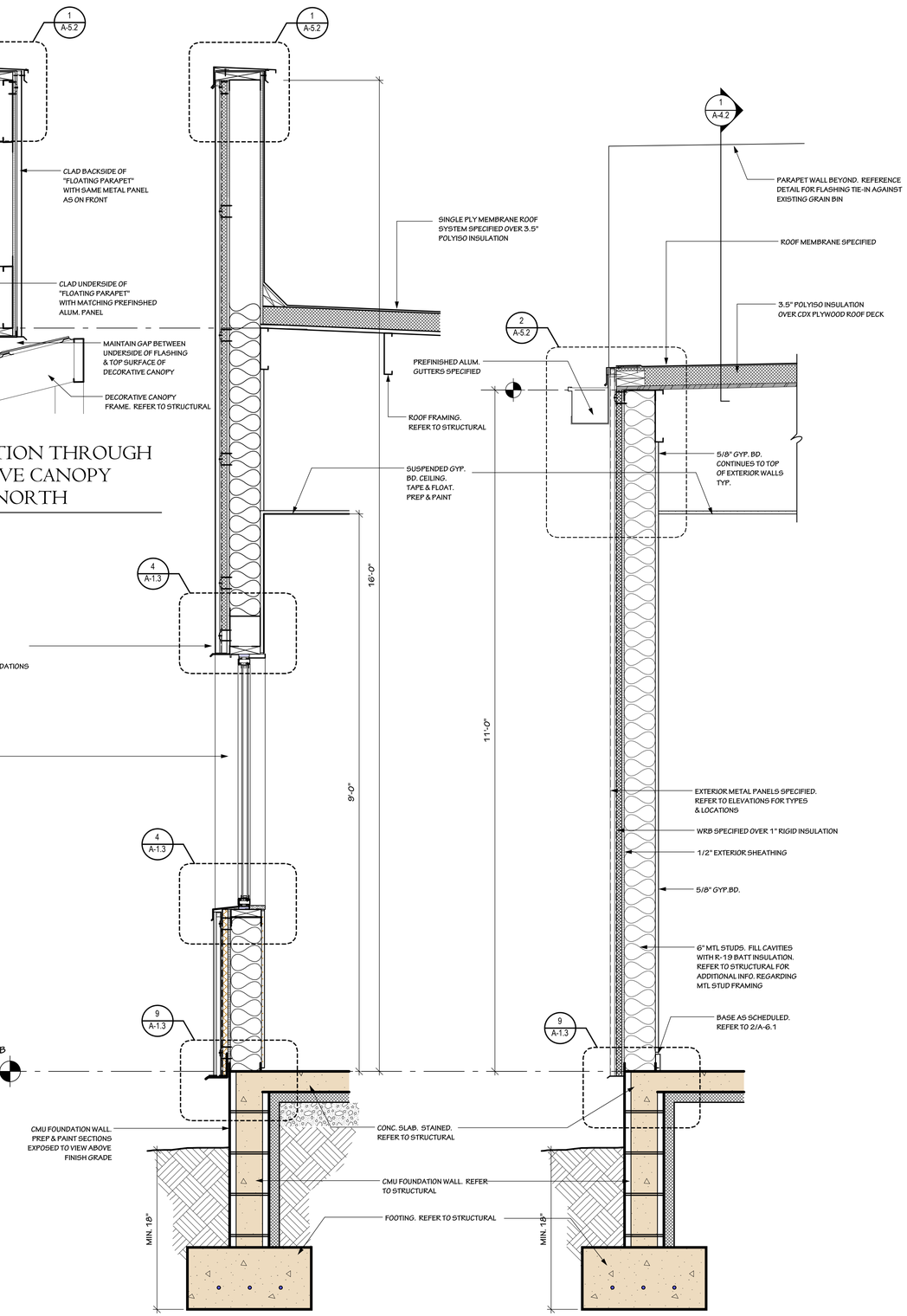
WALL SECTION @ GALLERY LOOKING SOUTH

1 SCALE: 1" =1'-0"



WALL SECTION THROUGH DECORATIVE CANOPY LOOKING NORTH

4 SCALE: 1" =1'-0"



WALL SECTION @ STORAGE LOOKING NORTH

2 SCALE: 1" =1'-0"

WALL SECTION @ RESTROOMS LOOKING SOUTH

3 SCALE: 1" =1'-0"

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REGISTERED ARCHITECT REVIVAL ARCHITECTURE LICENSED ARCHITECT STATE OF ARKANSAS

Project Name:
SOUTHERN TENANT FARMERS UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents:
WALL SECTIONS

Issue Date:
March 1, 2024

Revisions:
1 RE-BID April 19,2024

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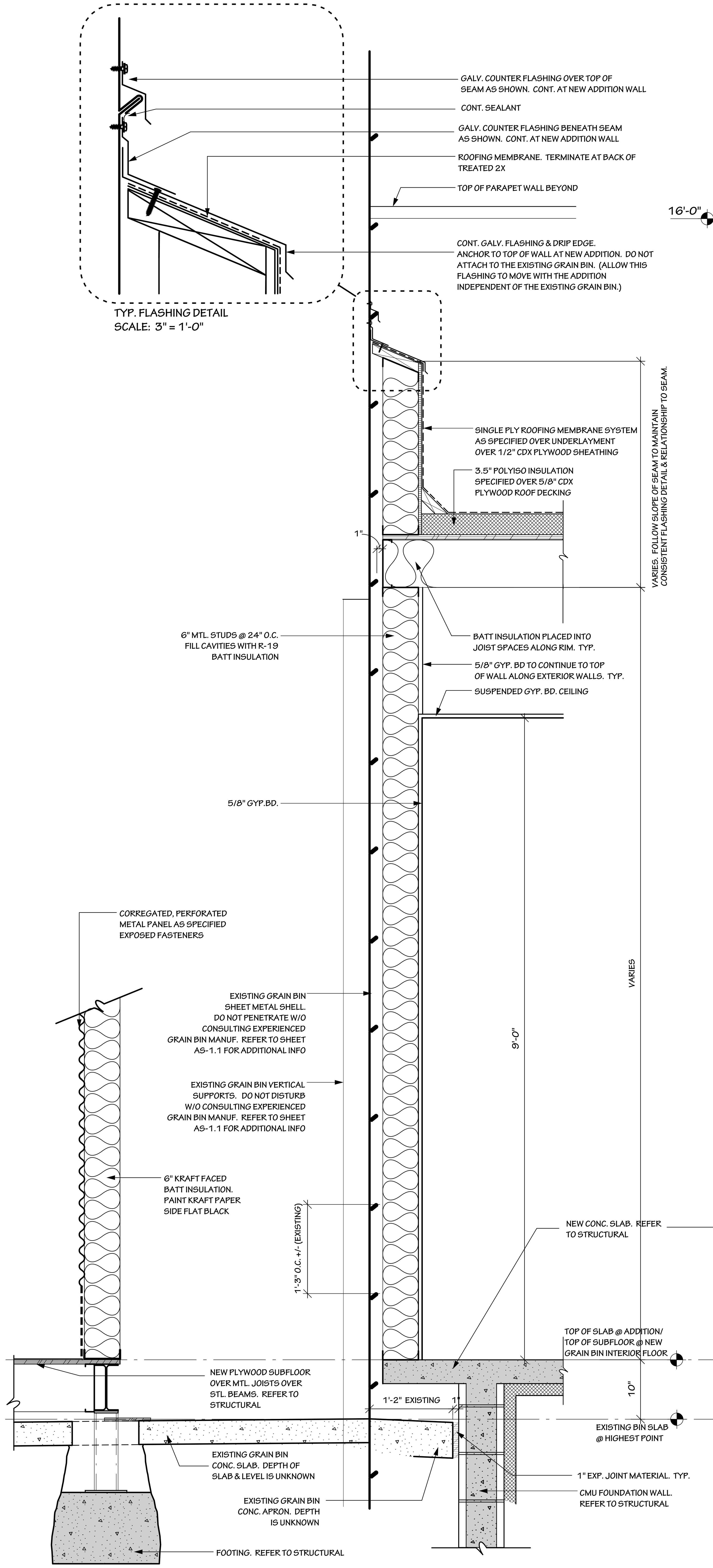
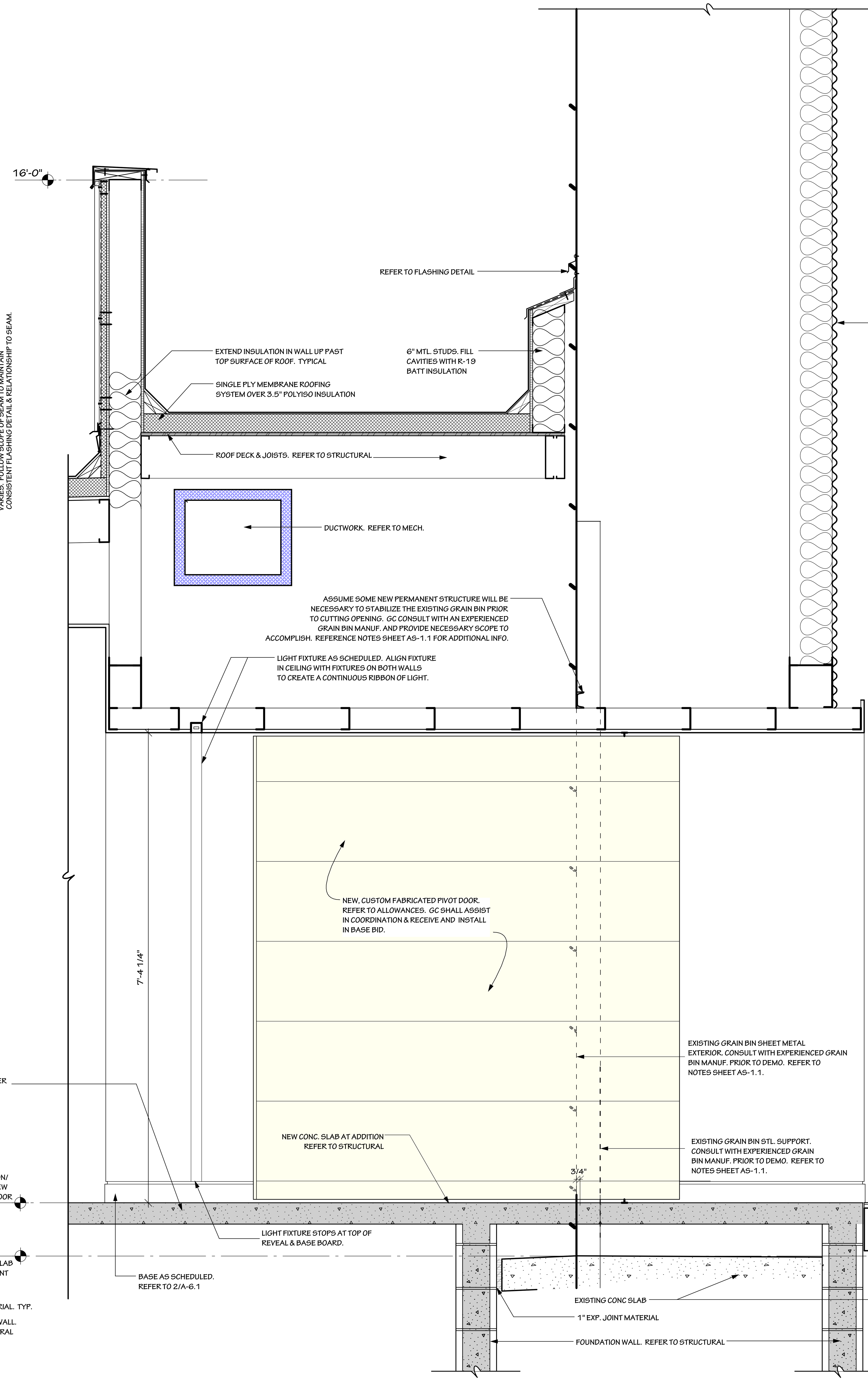
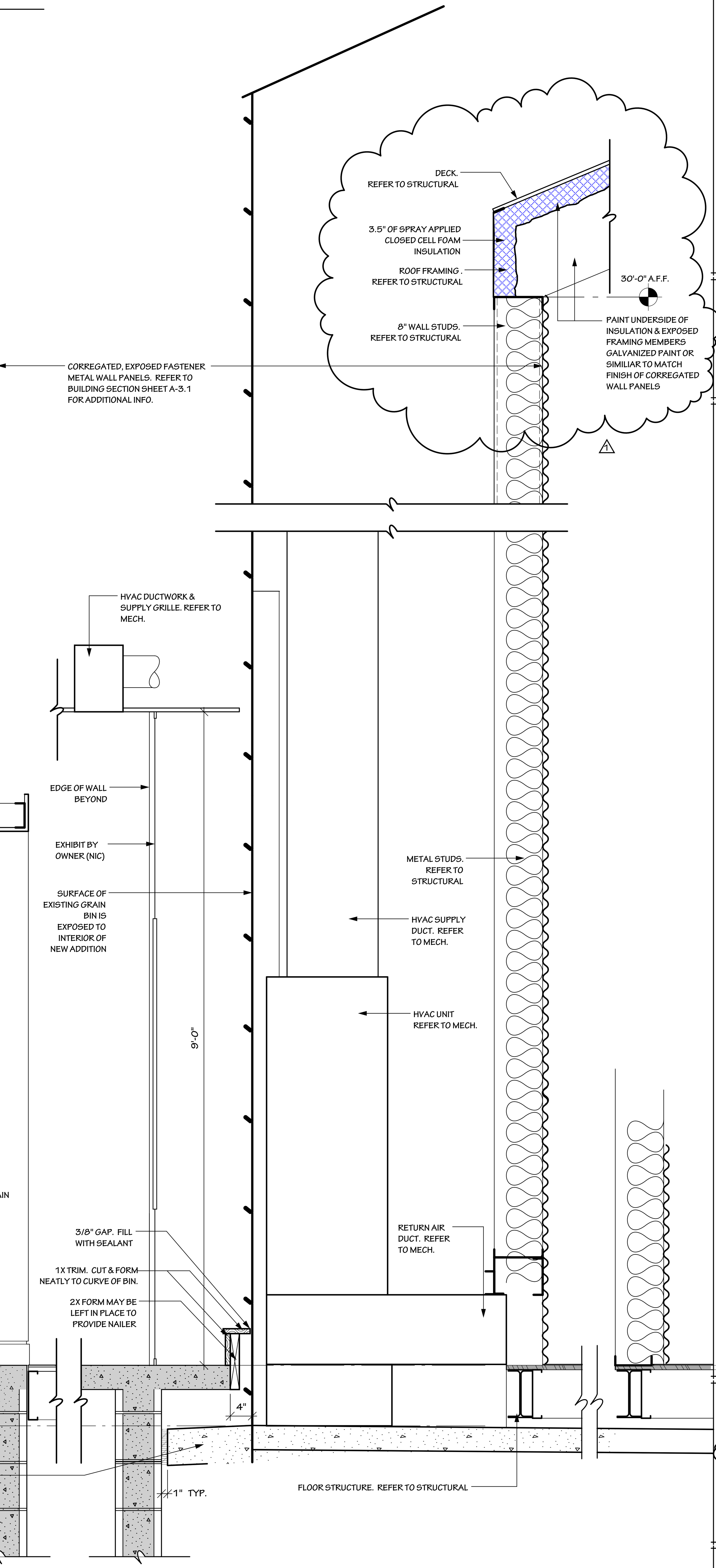


1 WALL SECTION AT GRAIN BIN SHELL
SCALE: 1" =1'-0"



2 SECTION DETAIL AT FLOOR JOINT BEWTEEN ADDITION AND EXISTING BIN
SCALE: 1" =1'-0"



3 WALL SECTION AT GRAIN BIN SHELL
SCALE: 1" =1'-0"

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Project Name:
SOUTHERN TENANT FARMERS UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents:
WALL SECTIONS

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March 1, 2024
Revisions:
1 RE-BID April 19,2024

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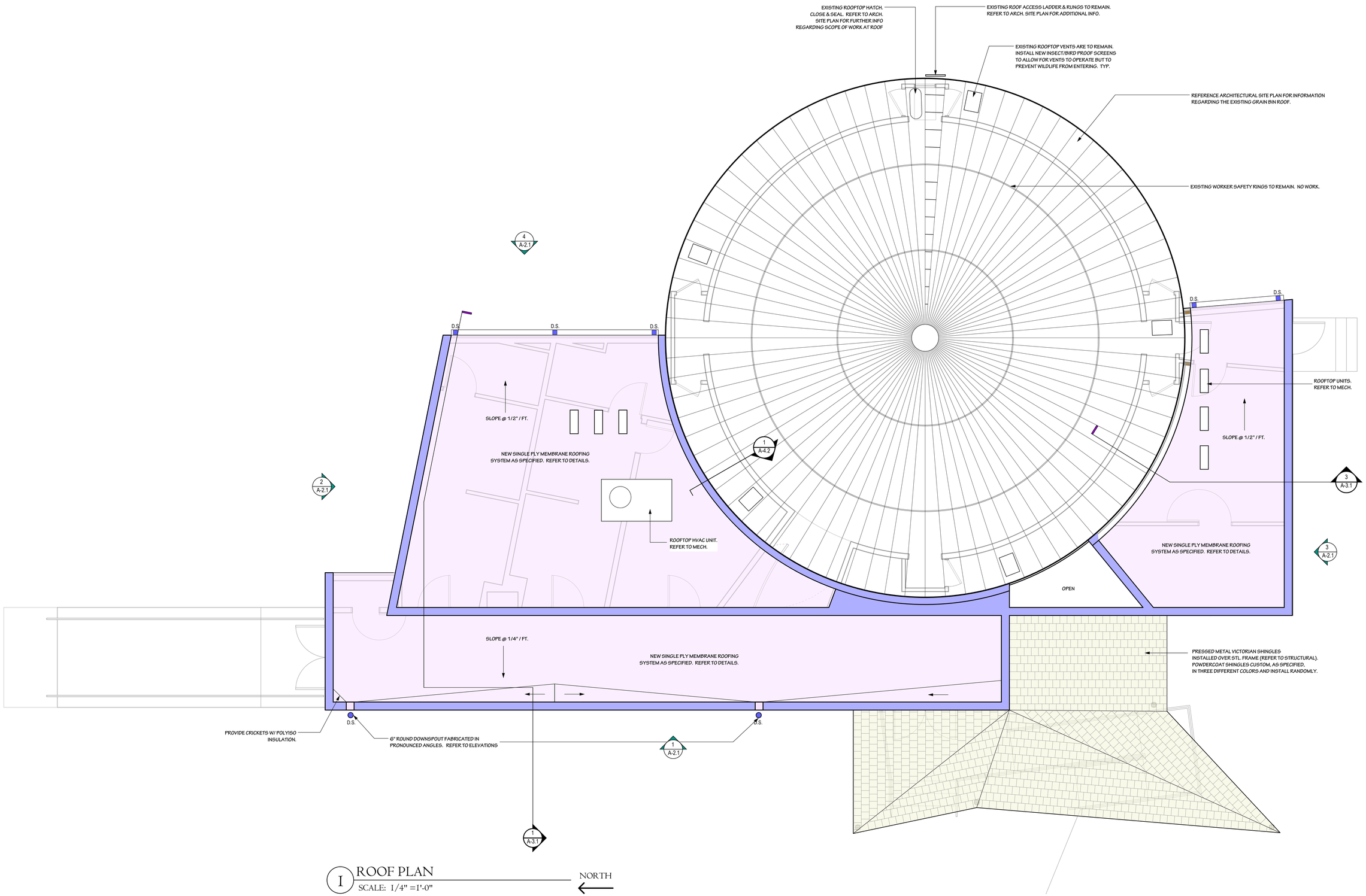

1 ROOF PLAN
SCALE: 1/4" =1'-0"

NORTH

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Project Name:
SOUTHERN TENANT FARMERS UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents:
ROOF PLAN

Issue Date:
March 1, 2024

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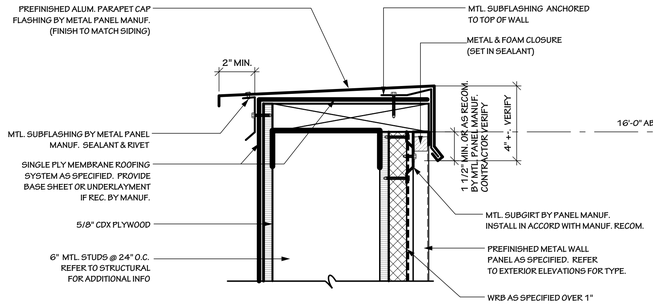
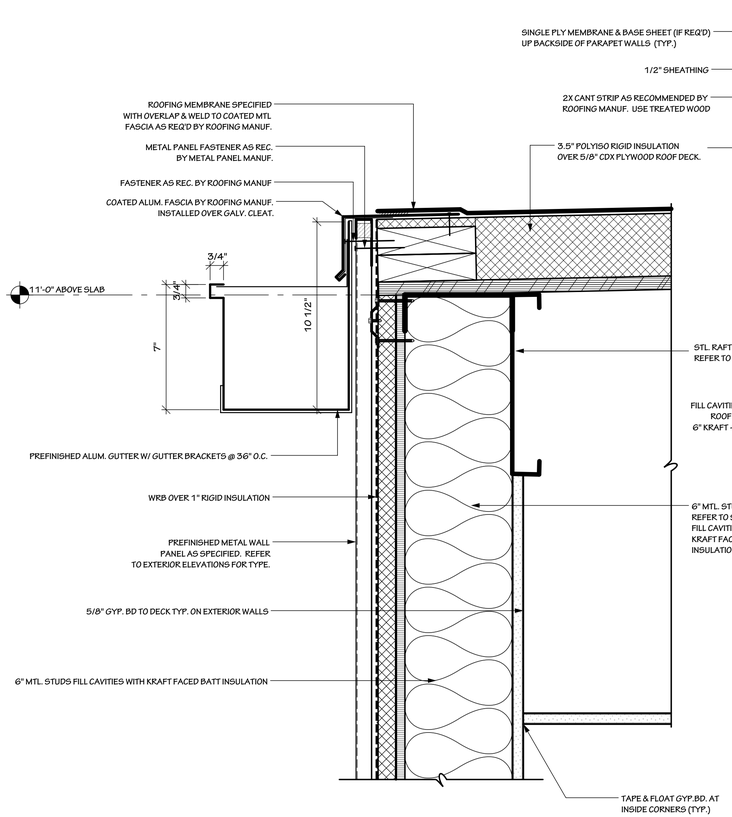
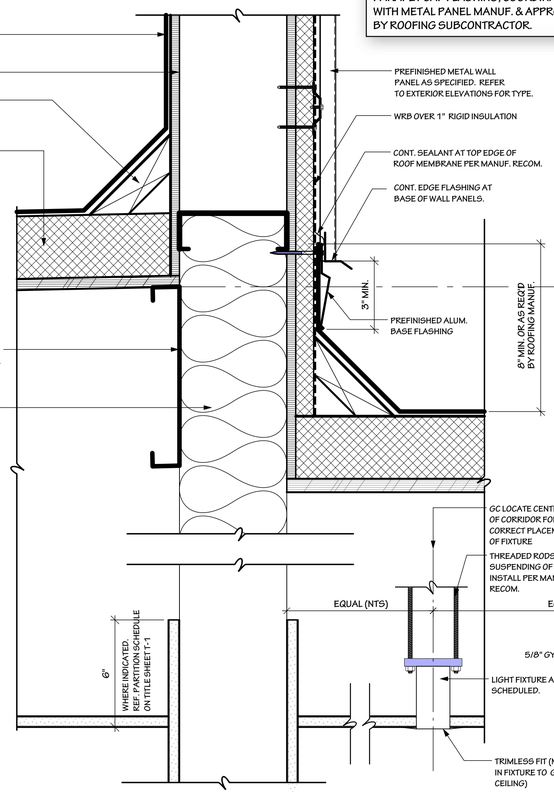


1 PARAPET DETAIL
SCALE: 3" =1'-0"

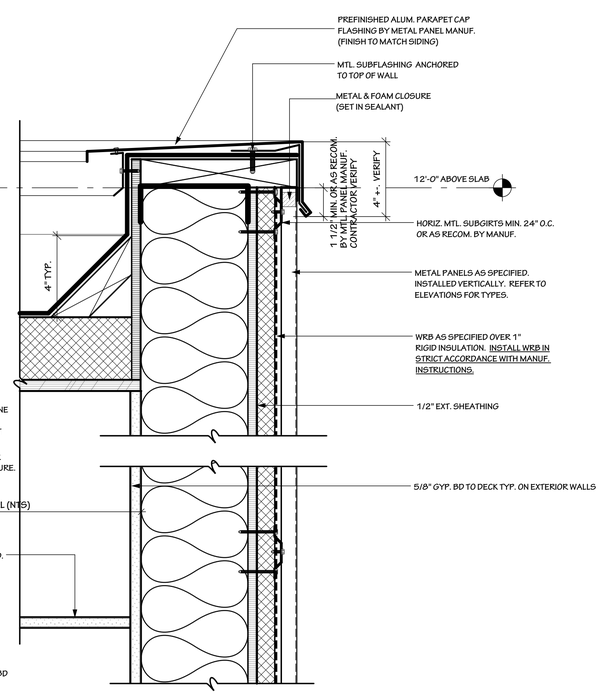
CONTRACTOR PROVIDE SHOP DRAWINGS INDICATING FINAL, VERIFIED HEIGHT OF PARAPET CAP FLASHING, COORDINATED WITH METAL PANEL MANUF. & APPROVED BY ROOFING SUBCONTRACTOR.



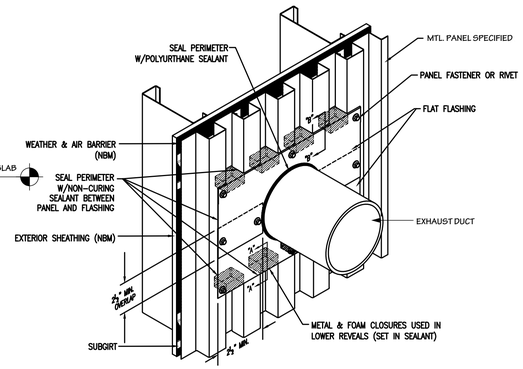
2 ROOF EDGE DETAIL
SCALE: 3" =1'-0"



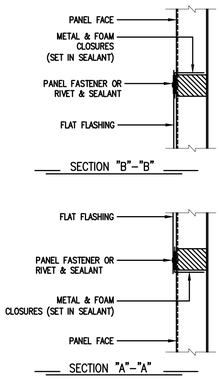
3 ROOF/WALL FLASHING DETAIL
SCALE: 3" =1'-0"



4 PARAPET DETAIL
SCALE: 3" =1'-0"



5 EXHAUST LOUVRE DETAIL
NOT TO SCALE



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REGISTERED ARCHITECT REVIVAL ARCHITECTURE LICENSE BOARD STATE OF ARKANSAS

Project Name:
SOUTHERN TENANT FARMERS UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents:
ROOF DETAILS

Issue Date:
March 1, 2024

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1 RE-BID April 19,2024

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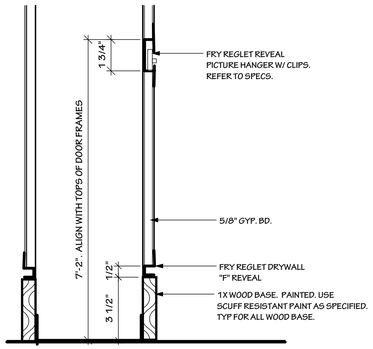
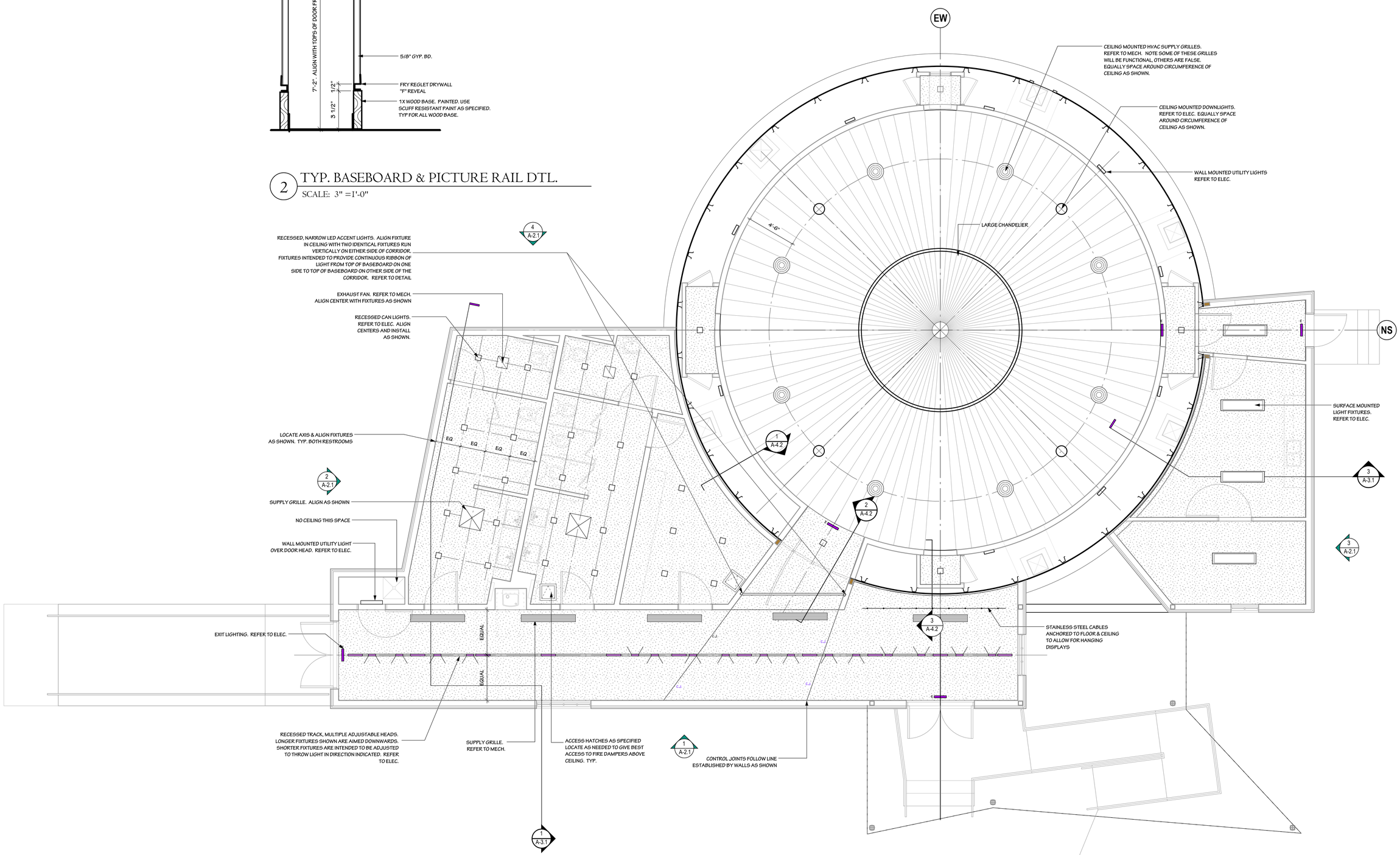


2 TYP. BASEBOARD & PICTURE RAIL DTL.

SCALE: 3" =1'-0"



1 REFLECTED CEILING PLAN

SCALE: 1/4" =1'-0"

NORTH

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(501) 951-3316 www.revivalarch.com S.D.G.

REGISTERED ARCHITECT
REVIVAL ARCHITECTURE
LICENSE #C718
STATE OF ARKANSAS

Project Name:
SOUTHERN TENANT FARMERS UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents:
REFLECTED CEILING PLAN

Issue Date:
March 1, 2024

Revisions:
1 RE-BID
April 19,2024

Sheet No:
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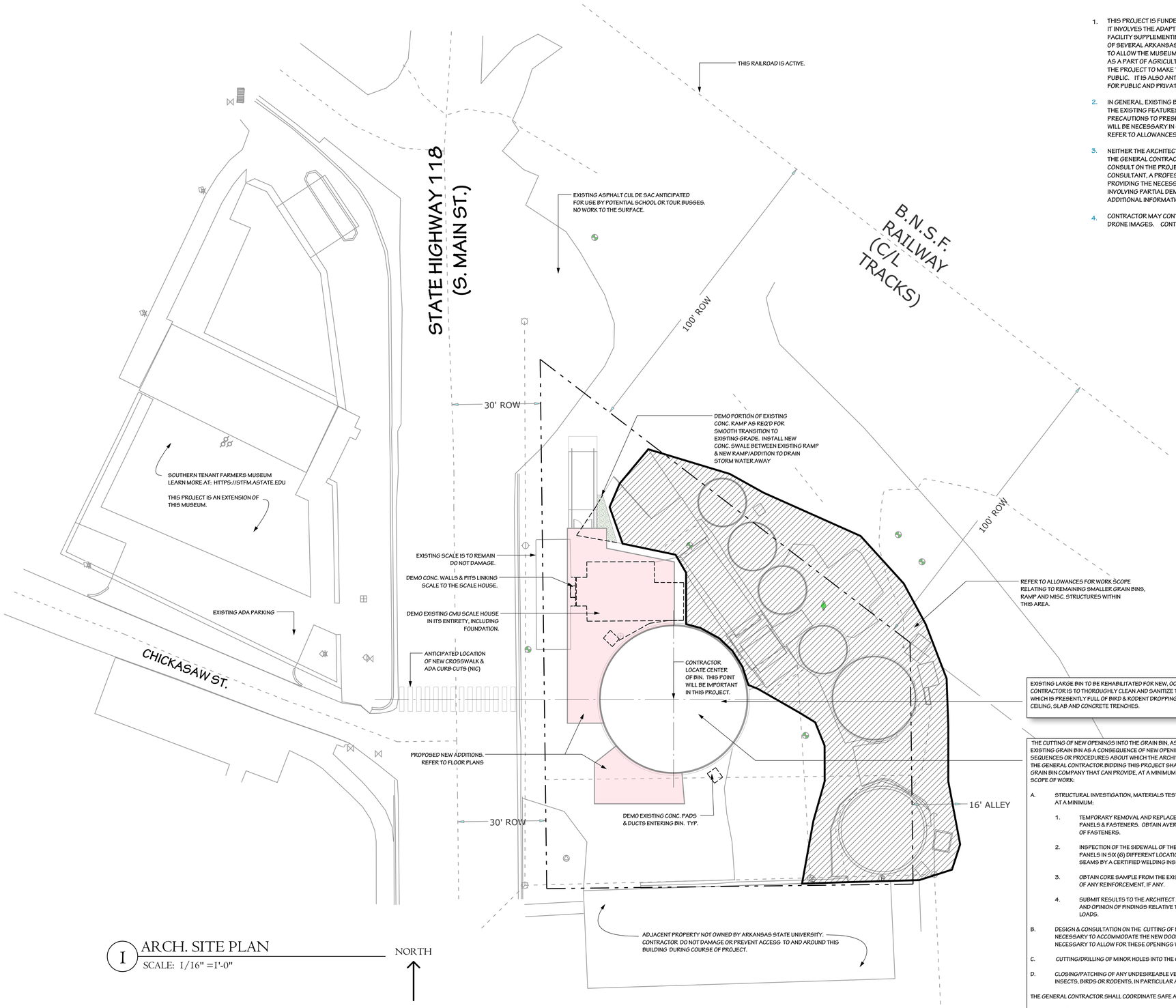

I ARCH. SITE PLAN
SCALE: 1/16" =1'-0"

THE CUTTING OF NEW OPENINGS INTO THE GRAIN BIN, AS WELL AS SHORING OR OTHER PERMANENT STABLIZIATION OF THE EXISTING GRAIN BIN AS A CONSEQUENCE OF NEW OPENINGS INVOLVES, BY DEFAULT, MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES ABOUT WHICH THE ARCHITECT HAS NO CONTROL OVER, CHARGE OF, OR RESPONSIBILITY. THUS, THE GENERAL CONTRACTOR BIDDING THIS PROJECT SHALL ENGAGE, HIRE AND CONSULT WITH AN EXPERIENCED & CAPABLE GRAIN BIN COMPANY THAT CAN PROVIDE, AT A MINIMUM AND NOT NECESSARILY LIMITED TO, THE FOLLOWING ANTICIPATED SCOPE OF WORK:

A. STRUCTURAL INVESTIGATION, MATERIALS TESTING AND ANALYSIS OF THE EXISTING LARGE GRAIN BIN, INCLUDING, AT A MINIMUM:
   1. TEMPORARY REMOVAL AND REPLACEMENT OF EXISTING ROOF SECTIONS TO PERMIT INSPECTION OF ROOF PANELS & FASTENERS. OBTAIN AVERAGE THICKNESS & CONDITION OF ROOF PANELS, SIZE AND CONDITION OF FASTENERS.
   2. INSPECTION OF THE SIDEWALL OF THE EXISTING LARGE BIN INCLUDING OBTAINING THICKNESS OF WALL PANELS IN SIX (6) DIFFERENT LOCATIONS FROM THE SLAB TO THE EAVE. INSPECTION OF THE WELDED SEAMS BY A CERTIFIED WELDING INSPECTOR.
   3. OBTAIN CORE SAMPLE FROM THE EXISTING CONCRETE SLAB TO DETERMINE THICKNESS AND PRESENCE OF ANY REINFORCEMENT, IF ANY.
   4. SUBMIT RESULTS TO THE ARCHITECT ALONG WITH THE GRAIN BIN COMPANY'S STRUCTURAL ANALYSIS AND OPINION OF FINDINGS RELATIVE TO THE LARGE GRAIN BIN'S ABILITY TO WITHSTAND WIND & SNOW LOADS.

B. DESIGN & CONSULTATION ON THE CUTTING OF NEW LARGE OPENINGS INTO THE SIDEWALL OF THE GRAIN BIN, AS IS NECESSARY TO ACCOMMODATE THE NEW DOORWAYS SHOWN. ASSUME SOME NEW STEEL STRUCTURE WILL BE NECESSARY TO ALLOW FOR THESE OPENINGS W/O COMPROMISE TO THE SHELL OF THE GRAIN BIN.

C. CUTTING/DRILLING OF MINOR HOLES INTO THE GRAIN BIN, AS MAY BE REQUIRED BY MEP TRADES.

D. CLOSING/PATCHING OF ANY UNDESIREABLE VENTS/HOLES/HATCHES THAT MIGHT ALLOW THE INTRUSION OF INSECTS, BIRDS OR RODENTS, IN PARTICULAR ALONG THE ROOF AND WALL INTERSECTION.

THE GENERAL CONTRACTOR SHALL COORDINATE SAFE ACCESS TO ALLOW FOR THIS WORK TO TAKE PLACE.

ALL OF THE WORK LISTED ABOVE SHALL BE INCLUDED WITHIN THE BID, ALONG WITH ANY MATERIALS AND LABOR NECESSARY FOR SUCH WORK TO TAKE PLACE. CONTRACTOR AND GRAIN BIN COMPANY SHALL ASSUME THAT THE STRUCTURAL TESTING AND ANALYSIS WILL REVEAL THAT THE EXISTING GRAIN BIN IS CAPABLE OF WITHSTANDING REASONABLE WIND & SNOW LOADS, AND THAT NO MAJOR STRUCTURAL STABILIZATION WILL BE NECESSARY AS A RESULT OF FINDINGS OF TESTING AND ANALYSIS. IT IS NOT EXPECTED THAT THE CONTRACTOR INCLUDE IN HIS BID ANY SIGNIFICANT SCOPE WITH REGARDS TO THE EXISTING GRAIN BIN STRUCTURE, SUCH AS TOTAL ROOF REPLACEMENT OR MAJOR SHORING OR REPLACEMENT OF MAJOR STRUCTURAL FEATURES OF THE GRAIN BIN.

GENERAL NOTES

1. THIS PROJECT IS FUNDED BY A GRANT RECEIVED FROM THE ARKANSAS NATURAL & CULTURAL RESOURCES COUNCIL. IT INVOLVES THE ADAPTIVE RE-USE OF AN ABANDONED SET OF GRAIN BINS AND OTHER STRUCTURES INTO A NEW FACILITY SUPPLEMENTING THE EDUCATIONAL OPPORTUNITIES OF THE SOUTHERN TENANT FARMERS MUSEUM, ONE OF SEVERAL ARKANSAS HERITAGE SITES RUN BY ARKANSAS STATE UNIVERSITY. THE PURPOSE OF THE PROJECT IS TO ALLOW THE MUSEUM TO EXPLAIN TO VISITORS, INCLUDING SCHOOL-AGED CHILDREN, HOW THE GRAIN BIN WORKED AS A PART OF AGRICULTURE IN THE NORTHEAST ARKANSAS ECONOMY. AS SUCH, IT WILL BE A HIGH PRIORITY FOR THE PROJECT TO MAKE THE BUILDINGS, RAMP AND IMMEDIATE SURROUNDINGS SAFE FOR CHILDREN AND THE PUBLIC. IT IS ALSO ANTICIPATED THAT THE NEW FACILITY CAN HAVE THE DUAL PURPOSE OF SERVING AS A VENUE FOR PUBLIC AND PRIVATE EVENTS SUCH AS WEDDINGS, CLASS REUNIONS & OTHER GATHERINGS.
2. IN GENERAL, EXISTING BUILDINGS AND SITE FEATURES ARE TO REMAIN AS THERE IS A STRONG PREFERENCE TO KEEP THE EXISTING FEATURES AND PLACE AS "INTACT" AS POSSIBLE, AS THE DAY IT WAS ABANDONED. THUS, TAKE PRECAUTIONS TO PRESERVE AND PROTECT EXISTING FEATURES FROM DAMAGE. OBVIOUSLY, SOME INTERVENTION WILL BE NECESSARY IN ORDER TO MAKE THE SITE SAFE, SUCH AS NEW GUARDRAILS, REMOVAL OF LADDERS, ETC... REFER TO ALLOWANCES.
3. NEITHER THE ARCHITECT NOR THE STRUCTURAL ENGINEER ON THE DESIGN TEAM ARE EXPERTS WITH GRAIN BINS. THE GENERAL CONTRACTOR SHALL ENGAGE & HIRE AN EXPERIENCED AND CAPABLE GRAIN BIN COMPANY TO CONSULT ON THE PROJECT DURING CONSTRUCTION. THE GRAIN BIN COMPANY SHALL HAVE, ON STAFF, OR HIRE AS A CONSULTANT, A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF ARKANSAS CAPABLE OF PROVIDING THE NECESSARY DESIGN INFORMATION (WHICH MAY INCLUDE DRAWING DETAILS) OF METHODS INVOLVING PARTIAL DEMOLITION, CUTTING INTO AND/OR SHORING OF THE EXISTING LARGE GRAIN BIN. REFEERENCE ADDITIONAL INFORMATION BELOW.
4. CONTRACTOR MAY CONTACT THE ARCHITECT FOR A LINK GIVING ACCESS TO SITE PHOTOGRAPHS INCLUDING DRONE IMAGES. CONTACT AARON RUBY AT 501-951-3316 OR EMAIL AARON@REVIVALARCH.COM.

REVIVAL ARCHITECTURE
P.O. Box 400, Scott, AR 72142
(501) 951-3316 www.revivalarch.com
S.D.G.

REGISTERED ARCHITECT
AARON RUBY
REVIVAL ARCHITECTURE
LICENSED ARCHITECT
STATE OF ARKANSAS

Project Name:
SOUTHERN TENANT FARMERS UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents:
ARCHITECTURAL SITE PLAN & GENERAL NOTES

Issue Date:
March 1, 2024

Revisions:
1 RE-BID April 19,2024

Sheet No:
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GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL INSTALLATION WITH THE WORK OF OTHER TRADES. FIELD MODIFICATIONS NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST.

2. ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER WITHIN STANDARD OF CARE FOR PROFESSION. ALL LABOR, MATERIAL, TOOLS, PERMITS, INSPECTIONS, TESTING, CERTIFICATION, ETC. REQUIRED FOR A COMPLETE AND SATISFACTORY INSTALLATION TO DESIGN INTENT SHALL BE FURNISHED BY CONTRACTOR. PROVIDE, AT NO ADDITIONAL COST, INCLUDING INCIDENTAL ITEMS NOT SHOWN WHEN REQUIRED FOR TYPICAL COMPLETION OF WORK.

3. DRAWINGS NOT BEARING THE STAMP OR SEAL AND SIGNATURE OF A REGISTERED PROFESSIONAL ENGINEER SHALL NOT BE USED FOR BIDDING OR CONSTRUCTION PURPOSES UNLESS EXPRESSLY APPROVED IN WRITING BY THE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL DRAWINGS AND SPECIFICATIONS BEING USED FOR BIDDING AND CONSTRUCTION PURPOSES ARE OF THE LATEST REVISION AVAILABLE AND ALL ADDENDUM DOCUMENTS HAVE BEEN INCORPORATED EITHER BY REVISION RELEASE OF DRAWINGS/SPECIFICATIONS OR ATTACHMENT OF SKETCHES OR OTHER ADDENDUM INFORMATION.

4. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW PRODUCTS OF ESTABLISHED AND REPUTABLE MANUFACTURERS. NO EQUIPMENT SUBSTITUTIONS SHALL BE MADE THAT WOULD LEAVE INADEQUATE OPERATING OR SERVICE SPACE. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES AND IN AN ARRANGEMENT THAT WILL GIVE THE GREATEST PRACTICAL EASE OF OPERATION AND SERVICE TO THE OWNER.

5. ALL EQUIPMENT WHICH IS INDICATED TO BE FURNISHED AND/OR INSTALLED BY OTHERS OR BY OWNER IS INCLUDED FOR REFERENCE ONLY UNLESS NOTED OTHERWISE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND VERIFYING INSTALLATION REQUIREMENTS OF THIS EQUIPMENT WITH THE APPLICABLE SUPPLIER OR THE OWNER. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

6. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE, LOCAL ORDINANCES, AND UTILITY COMPANY REGULATIONS. ALL PLUMBING MATERIALS, INSTALLATION PROCEDURES, AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THESE RULES, REGULATIONS, AND ORDINANCES. THESE CODES REPRESENT THE MINIMUM ACCEPTABLE REQUIREMENTS, THEREFORE, WHERE DRAWINGS AND/OR SPECIFICATIONS INDICATE MATERIALS OR CONSTRUCTION MORE STRINGENT THAT CODE REQUIREMENTS, THE DRAWINGS AND/OR SPECIFICATIONS SHALL GOVERN.

7. IF COMPLIANCE WITH STANDARDS, CODES, REGULATIONS AND CONTRACT DOCUMENTS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, REFER CONFLICTING REQUIREMENTS TO ENGINEER FOR A DECISION BEFORE PROCEEDING.

8. WHERE CONTRACT DOCUMENTS NAME A SINGLE MANUFACTURER AND PRODUCT, PROVIDE THE NAMED PRODUCT THAT COMPLIES WITH REQUIREMENTS. COMPARABLE PRODUCTS OR SUBSTITUTIONS FOR CONTRACTOR'S CONVENIENCE WILL BE CONSIDERED. THE PROJECT.

9. CLOSEOUT SUBMITTALS SHALL INCLUDE, BUT NOT LIMITED TO, OPERATION AND MAINTENANCE MANUALS AND RECORD DRAWINGS.

10. THE CONTRACTOR SHALL VISIT THE SITE OF THE BUILDING BEFORE SUBMITTING A PROPOSAL ON THIS WORK AND SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND OPERATIONS. FAILURE ON CONTRACTORS PART TO DO THIS WILL NOT BE CAUSE OF EXTRAS AFTER THE CONTRACT IS SIGNED, BY REASON OF UNFORESEEN CONDITIONS.

11. NO PERSON SHALL PERFORM ELECTRICAL WORK ON THE CONTRACT WITHOUT POSSESSING A MASTER'S OR JOURNEYMAN'S LICENSE FROM THE STATE ELECTRICAL EXAMINERS BOARD. ALL ELECTRICAL WORK AND APPRENTICE ELECTRICIANS SHALL BE SUPERVISED BY A MASTER JOURNEYMAN ELECTRICIAN ON A ONE TO ONE RATIO.

12. PREPARE AND SUBMIT SUBMITTALS TO ARCHITECT.

13. ALL AREAS USED AS RETURN AIR PLENUMS SHALL BE CONSTRUCTED WITH FIRE RESISTANT MATERIALS AND SHALL ONLY CONTAIN MATERIALS WHICH HAVE SMOKE DEVELOPED RATINGS NOT GREATER THAN 50 AND FLAME SPREAD RATINGS NOT GREATER THAN 25.

14. ALL ELECTRICAL EQUIPMENT, SUCH AS SWITCHES, CIRCUIT BREAKERS, ETC. SHALL BE TESTED BY OPERATING THE DEVICE TO VERIFY THAT THE MECHANICAL PORTIONS OF THE DEVICE ARE FUNCTIONING.

15. THE CONTRACT SHALL ASSIST ALL OTHER TRADES IN PERFORMING ROTATIONAL TESTS ON ALL MOTORS PROVIDED UNDER THIS CONTRACT.

16. ALL EXPOSED CONDUIT SHALL BE GALVANIZED RIGID STEEL.

17. WIRE SIZE PER CODE UNLESS NOTED ELSEWHERE:

WIRE SIZE 120V

A. #12 LESS THAN 75 FEET
B. #10 BETWEEN 75-150 FEET
C. #8 BETWEEN 150-250 FEET
D. #6 BETWEEN 250-375 FEET

LEGEND

ID	WALL MOUNT STRIP LIGHT.
ID	WALL PACK LIGHT FIXTURE.
ID	RECESSED ROUND DOWN LIGHT.
ID	RECESSED SQUARE DOWN LIGHT.
ID	2X4 LED TROFFER.
ID	2X4 LED TROFFER ON EMERGENCY POWER.
ID	2X2 LED TROFFER.
ID	2X2 LED TROFFER ON EMERGENCY POWER.
ID	4' LED STRIP
ID	WALL LIGHT RECTANGLE
ID	EMERGENCY LIGHT
ID	PENDANT LIGHT

SWITCHES

HARD WIRED	
S	
SD	SINGLE POLE SWITCH. "D" DENOTES DIMMER, "3" 3-WAY, "4"-WAY, "3"-WAY DIMMER. COORDINATE WITH FIXTURE/LAMP TYPE AND CIRCUIT WATTAGE.
S3	
S4	
SD3	
SO	WALL MOUNTED DUAL TECH. MOTION SENSOR SWITCH WIRE PER MANUFACTURERS RECOMMENDATION. PROVIDE CONTACTORS TO CONTROL EXHAUST FAN WITH LIGHTS.
SO3	WALL MOUNTED DUAL TECHNOLOGY 3WAY OCCUPANCY SENSOR SWITCH. WIRE PER MANUFACTURERS RECOMMENDATION.
SM	MOTOR RATED SWITCH USED FOR EQUIPMENT DISCONNECTING MEANS. SINGLE PHASE: PROVIDE MANUAL MOTOR STARTER WITH THERMAL OVERLOAD RELAYS SIZED PER MOTOR LOAD.

	BRANCH CIRCUIT HOMERUN. PANEL AND CIRCUIT NUMBER INDICATED.
OS	CEILING MOUNTED DUAL TECH. OCCUPANCY SENSOR. PROVIDE AND INSTALL APPROPRIATE POWER PACK. COORDINATE SWITCHING, LOCATION AND QUANTITY WITH ACTUAL OCCUPANCY SENSOR USED. WIRE PER MANUFACTURERS RECOMMENDATION. PROVIDE OCCUPANCY SENSOR WHICH IS THE CORRECT TYPE FOR THE SPACE. PROVIDE CONTACTORS TO CONTROL EXHAUST FAN WITH LIGHTS.
	EXIT SIGN/COMBINATION EXIT/EMERGENCY LIGHT
	EXIT SIGN/COMBINATION EXIT/EMERGENCY LIGHT (WITH DIRECTIONAL ARROWS).

	DUPLEX RECEPTACLE (TYPE 5362). MOUNT 18" AFF UNLESS OTHERWISE NOTED.
	QUADRUPLEX RECEPTACLE (TYPE 5362). MOUNT 18" AFF UNLESS OTHERWISE NOTED.
	DUPLEX RECEPTACLE GROUND FAULT TYPE GF5362.
	QUADRUPLEX RECEPTACLE GROUND FAULT TYPE GF5362.
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER.
	QUADRUPLEX RECEPTACLE MOUNTED ABOVE COUNTER.
	EMERGENCY RECEPTACLE.
	SPECIAL RECEPTACLE AS NOTED ON THE PLANS.
	ELECTRICAL PANEL.
TTB	TELEPHONE AND FIRE ALARM
1	REVISION DELTA.

REVIVAL ARCHITECTURE SDVG
P.O. Box 400, Scott, Arkansas 72142 (501) 951-3316 www.revivalarch.com

PROJECT NAME:
SOUTHERN TENANT FARMERS UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents
ELECTRICAL LEGEND & GENERAL NOTES

ISSUE DATE:
March 1, 2024

Revisions
1 RE-BID
April 19, 2024

Sheet No:
E-I.I

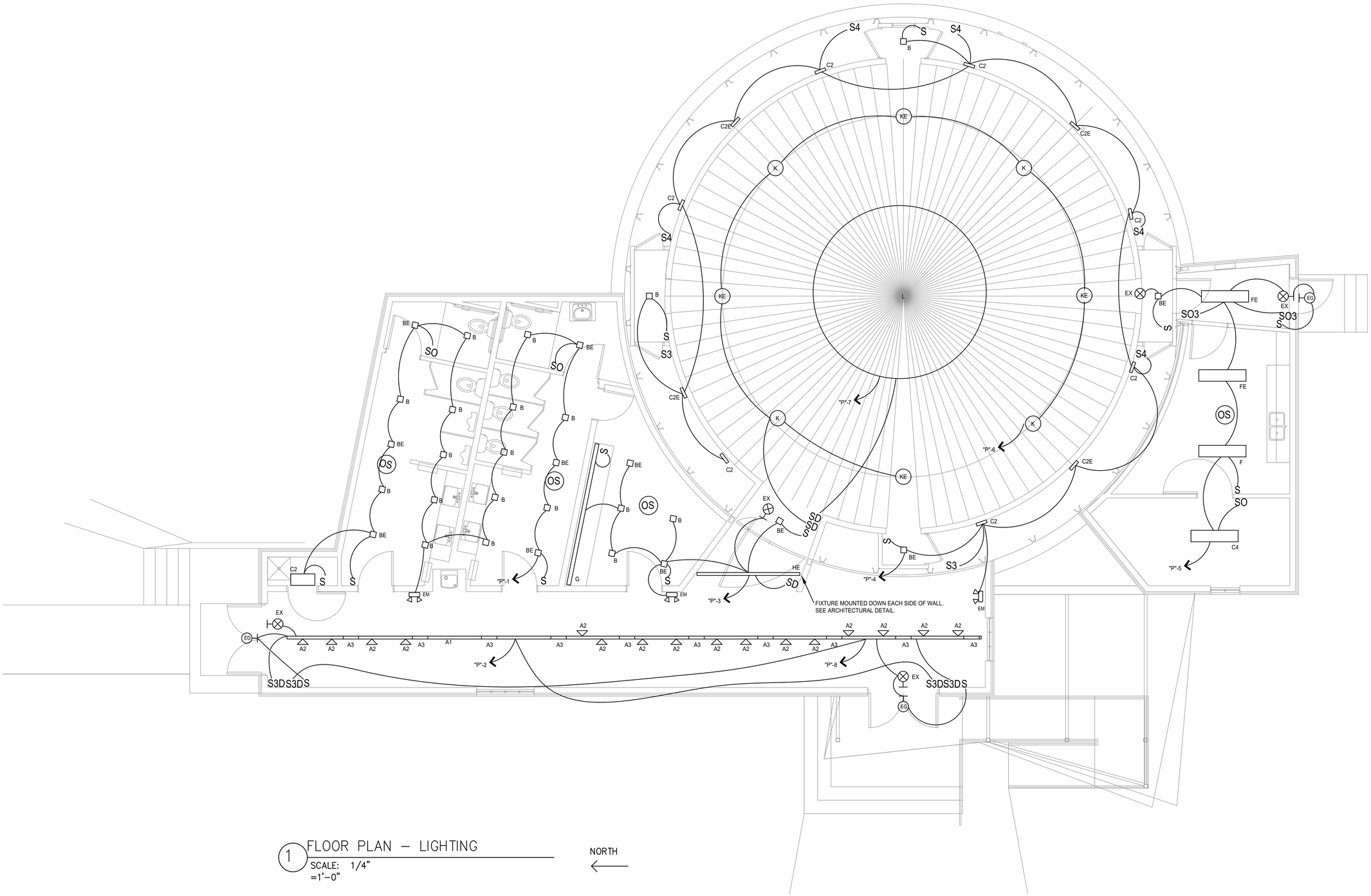
CERTIFICATE OF AUTHORIZATION
INSIGHT ENGINEERING, PLLC
No. 3523
ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 5822
WILLIAM PRESTON BARRY

3/1/24

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR TO LOCATE, ALIGN, AND SPACE LIGHT FIXTURES AS SHOWN ON THE ARCHITECTURAL PLANS.
2. IN GRAIN BIN AREA ALL ROUGH-IN AND INSTALLATION TO BE COORDINATED WITH GRAIN BIN MANUFACTURER AND ARCHITECT PRIOR TO ROUGH-IN.



1 FLOOR PLAN – LIGHTING

SCALE: 1/4" =1'-0"

NORTH

REVIVAL ARCHITECTURE
P.O. Box 400, Scott, Arkansas 72142
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PROJECT NAME:
SOUTHERN TENANT FARMERS UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents
ELECTRICAL - LIGHTING PLAN

ISSUE DATE:
March 1, 2024

Revisions:
1 RE-BID
April 19, 2024

Sheet No:
E-I.2

CERTIFICATE OF AUTHORIZATION
INSIGHT ENGINEERING, PLLC
No. 3523
ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 5822
MICHAEL PRESTON HAIGEN

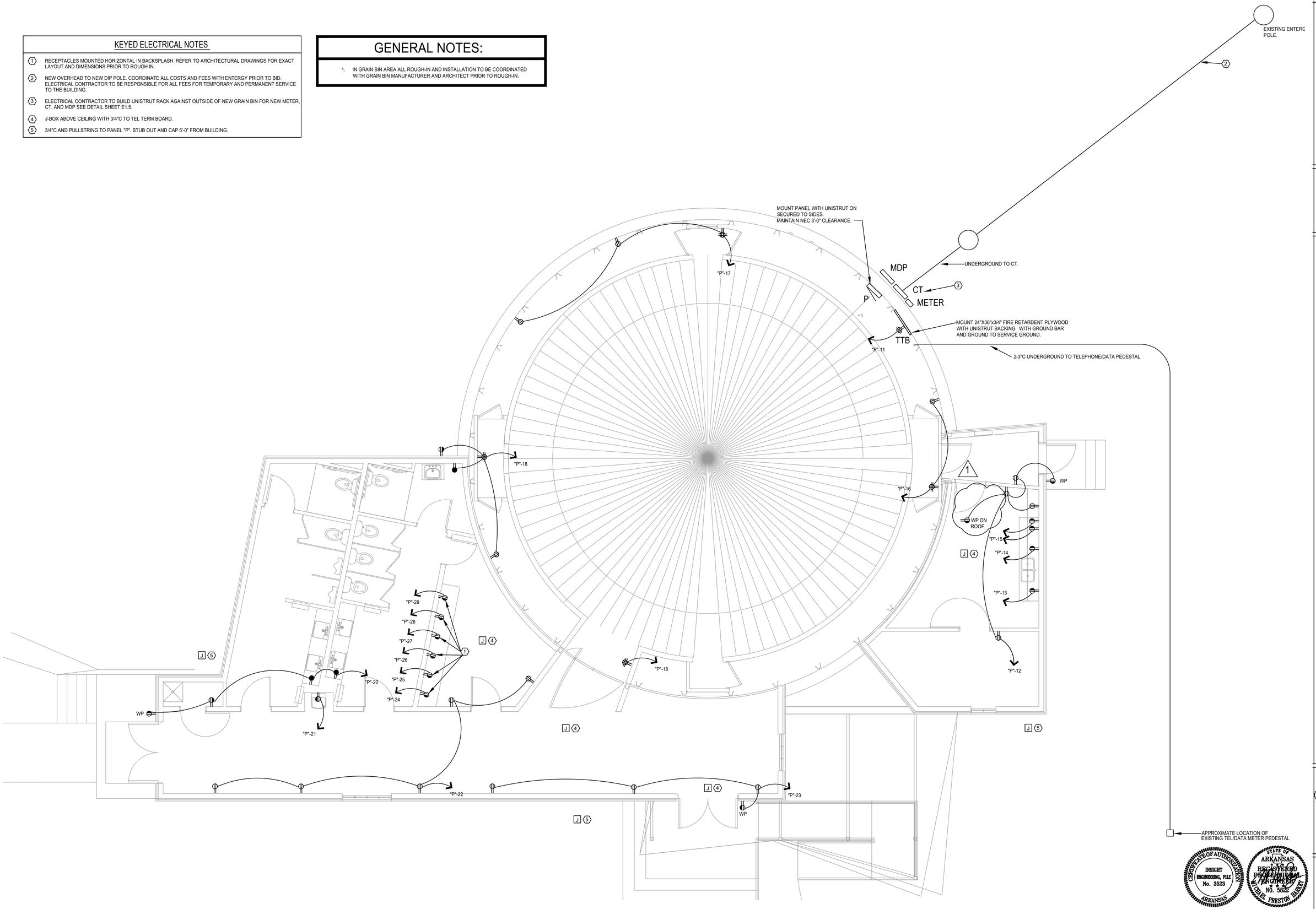
3/1/24

KEYED ELECTRICAL NOTES

1. RECEPTACLES MOUNTED HORIZONTAL IN BACKSPLASH. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LAYOUT AND DIMENSIONS PRIOR TO ROUGH IN.
2. NEW OVERHEAD TO NEW DIP POLE. COORDINATE ALL COSTS AND FEES WITH ENTERGY PRIOR TO BID. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR ALL FEES FOR TEMPORARY AND PERMANENT SERVICE TO THE BUILDING.
3. ELECTRICAL CONTRACTOR TO BUILD UNISTRUT RACK AGAINST OUTSIDE OF NEW GRAIN BIN FOR NEW METER, CT, AND MDP SEE DETAIL SHEET E1.5.
4. J-BOX ABOVE CEILING WITH 3/4"C TO TEL TERM BOARD.
5. 3/4"C AND PULLSTRING TO PANEL "P". STUB OUT AND CAP 5'-0" FROM BUILDING.

GENERAL NOTES:

1. IN GRAIN BIN AREA ALL ROUGH-IN AND INSTALLATION TO BE COORDINATED WITH GRAIN BIN MANUFACTURER AND ARCHITECT PRIOR TO ROUGH-IN.



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PROJECT NAME:
SOUTHERN TENANT FARMERS UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents:
ELECTRICAL - POWER AND SYSTEMS PLAN

ISSUE DATE:
March 1, 2024

REVISIONS:
1 RE-BID
April 19, 2024

Sheet No:
E-1.3

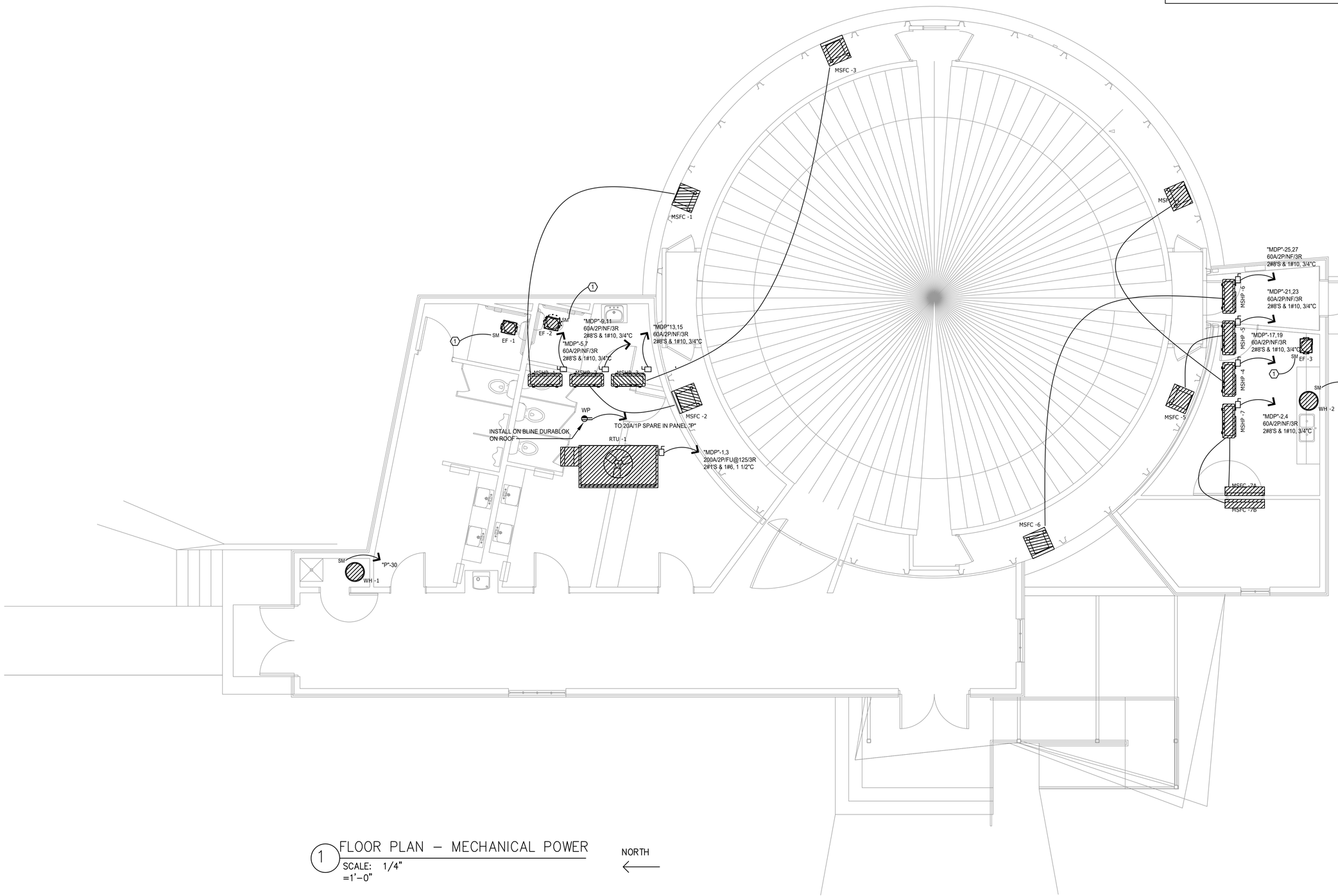
CERTIFICATE OF AUTHORIZATION
INSIGHT ENGINEERING, PLLC
No. 3523
ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 5822
ELIJAH PRESTON BLAKEY

3/1/24

KEYED ELECTRICAL NOTES

1	CONNECT TO ROOM LIGHTING CIRCUIT AND SWITCHING.



1 FLOOR PLAN – MECHANICAL POWER

SCALE: 1/4" =1'-0"

NORTH

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PROJECT NAME:
SOUTHERN TENANT FARMERS UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents:
ELECTRICAL - MECHANICAL POWER PLAN

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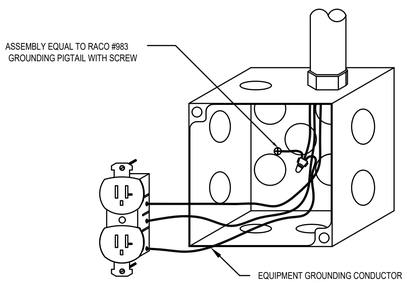
E-I.4

INSIGHT ENGINEERING, PLLC
No. 3523
CERTIFICATE OF AUTHORIZATION
ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 5822
CHARLES PRESTON HARRIS

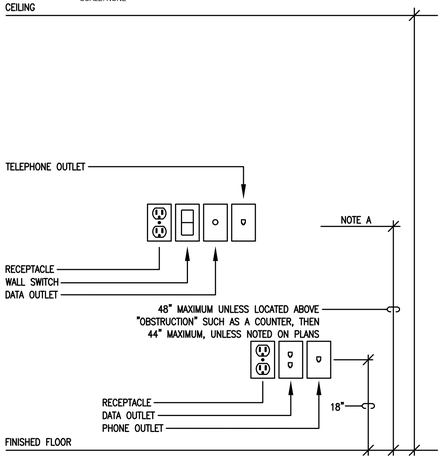
3/1/24



UTILIZE SAME GROUNDING METHOD FOR SWITCHES

JUNCTION BOX GROUNDING DETAIL

SCALE: NONE



GENERAL MOUNTING HEIGHT NOTES:

A. COORDINATE WITH ARCHITECT FOR EXACT LOCATION AND ELEVATION OF ALL DEVICES IN PROXIMITY TO SINKS, COUNTERTOPS, BACK SPLASHES, CABINETRY AND ARCHITECTURAL FEATURE ELEMENTS.

DEVICE MOUNTING HEIGHTS

SCALE: NONE

PANEL SCHEDULE

Panel Name:	MSP
Voltage	120/240
Phase	1
Mounting:	SURFACE
Rating	NEMA 1

Panel Amperage:	600A
Panel A.I.C. Rating:	65kAIC
Main	MCB

DESCRIPTION	LOAD A	LOAD B	RACEWAY SIZE INCHES	PHASE, SIZE AWG	NEUTRAL SIZE AWG	NUMBER OF P+N WIRES	NUMBER OF P+N SETS	GROUND SIZE AWG	TOTAL WIRES	POLES	BREAKER TRIP	CIRCUIT NUMBER	CIRCUIT NUMBER	BREAKER TRIP	POLES	TOTAL WIRES	GROUND SIZE AWG	NUMBER OF P+N SETS	NUMBER OF P+N WIRES	NEUTRAL SIZE AWG	PHASE, SIZE AWG	RACEWAY SIZE INCHES	LOAD A	LOAD B	DESCRIPTION
												1	2										3940		
RTU-1	13800		1 1/2	1		2	1	6	3	2	125	3	4	40	2	3	10	1	2			1		3940	MSHP-7
		13800										5	6										11500		
MSHP-1	3940		3/4	8		2	1	10	3	2	40	7	8	225	2	4	4	1	3	4/0	4/0	3/4		12715	PANEL P
	3940											9	10												
MSHP-2		3940	3/4	8		2	1	10	3	2	40	11	12	100	2	3	12	1	2	12	12	3/4			PREPARED SPACE
	3940											13	14												
MSHP-3		3940	3/4	8		2	1	10	3	2	40	15	16	20	1	3	12	1	2	12	12	3/4			
	3940											17	18	20	1	3	12	1	2	12	12	3/4			
MSHP-4		3940	3/4	8		2	1	10	3	2	40	19	20	20	1	3	12	1	2	12	12	3/4			
	3940											21	22	20	1	3	12	1	2	12	12	3/4			
MSHP-5		3940	3/4	8		2	1	10	3	2	40	23	24	20	1	3	12	1	2	12	12	3/4			
	3940											25	26	20	1	3	12	1	2	12	12	3/4			
MSHP-6		3940	3/4	8		2	1	10	3	2	40	27	28	20	1	3	12	1	2	12	12	3/4			
			3/4	12	12	2	1	12	3	1	20	29	30	20	1	3	12	1	2	12	12	3/4			
			3/4	12	12	2	1	12	3	1	20	31	32	20	1	3	12	1	2	12	12	3/4			
			3/4	12	12	2	1	12	3	1	20	33	34	20	1	3	12	1	2	12	12	3/4			
			3/4	12	12	2	1	12	3	1	20	35	36	20	1	3	12	1	2	12	12	3/4			
			3/4	12	12	2	1	12	3	1	20	37	38	20	1	3	12	1	2	12	12	3/4			
			3/4	12	12	2	1	12	3	1	20	39	40	20	1	3	12	1	2	12	12	3/4			
			3/4	12	12	2	1	12	3	1	20	41	42	20	1	3	12	1	2	12	12	3/4			
	TOTALS	37440	37440																				15440	16655	TOTALS

	WATTS
PHASE A LOAD:	52880
PHASE B LOAD:	54095
TOTALS:	106975

PANEL SCHEDULE

Panel Name:	P
Voltage	120/240
Phase	1
Mounting:	SURFACE
Rating	NEMA 1

Panel Amperage:	225
Panel A.I.C. Rating:	22kAIC
Main	MLO

DESCRIPTION	LOAD A	LOAD B	RACEWAY SIZE INCHES	PHASE, SIZE AWG	NEUTRAL SIZE AWG	NUMBER OF P+N WIRES	NUMBER OF P+N SETS	GROUND SIZE AWG	TOTAL WIRES	POLES	BREAKER TRIP	CIRCUIT NUMBER	CIRCUIT NUMBER	BREAKER TRIP	POLES	TOTAL WIRES	GROUND SIZE AWG	NUMBER OF P+N SETS	NUMBER OF P+N WIRES	NEUTRAL SIZE AWG	PHASE, SIZE AWG	RACEWAY SIZE INCHES	LOAD A	LOAD B	DESCRIPTION
RESTROOM LIGHTING	400		3/4	12	12	2	1	12	3	1	20	1	2	20	1	3	12	1	2	12	12	3/4	1500		TRACK LIGHTING
BRIDE BIN ENTRY LIGHTING		255	3/4	12	12	2	1	12	3	1	20	3	4	20	1	3	12	1	2	12	12	3/4		260	GAP LIGHTING
KIT/STO/ENTRY LIGHTING	300		3/4	12	12	2	1	12	3	1	20	5	6	20	1	3	12	1	2	12	12	3/4	400		GRAIN BIN PENDANT LIGHTING
CHANDELIER		1500	3/4	12	12	2	1	12	3	1	20	7	8	20	1	3	12	1	2	12	12	3/4		1500	TRACK LIGHTING
SPARE										1	20	9	10	20	1										SPARE
TELEPHONE TERM BOARD		1500	3/4	12	12	2	1	12	3	1	20	11	12	20	1	3	12	1	2	12	12	3/4		1000	KIT/EXT/STO RECEPTACLES
KITCHEN AC RECEPTACLE	1500		3/4	12	12	2	1	12	3	1	20	13	14	20	1	3	12	1	2	12	12	3/4	1500		KITCHEN AC RECEPTACLE
KITCHEN AC RECEPTACLE		1500	3/4	12	12	2	1	12	3	1	20	15	16	20	1	3	12	1	2	12	12	3/4		600	ENTRY QUAD
EAST QUAD	800		3/4	12	12	2	1	12	3	1	20	17	18	20	1	3	12	1	2	12	12	3/4	800		NORTH QUAD
WEST QUAD		400	3/4	12	12	2	1	12	3	1	20	19	20	20	1	3	12	1	2	12	12	3/4		800	BATHROOM/JAN/EXT RECEPTACLES
EWC	500		3/4	12	12	2	1	12	3	1	20	21	22	20	1	3	12	1	2	12	12	3/4	1200		CORRIDOR/BRIDE RECEPTACLES
CORRIDOR RECEPTACLES		800	3/4	12	12	2	1	12	3	1	20	23	24	20	1	3	12	1	2	12	12	3/4		200	BRIDE ROOM AC RECEPTACLE
BRIDE ROOM RECEPTACLE	200		3/4	12	12	2	1	12	3	1	20	25	26	20	1	3	12	1	2	12	12	3/4	200		BRIDE ROOM AC RECEPTACLE
BRIDE ROOM RECEPTACLE		200	3/4	12	12	2	1	12	3	1	20	27	28	20	1	3	12	1	2	12	12	3/4		200	BRIDE ROOM AC RECEPTACLE
BRIDE ROOM RECEPTACLE	200		3/4	12	12	2	1	12	3	1	20	29	30	30	1	3	10	1	2	10	10	3/4	2000		WH-1
WH-2		2000	3/4	10	10	2	1	10	3	1	30	31	32	20	1	3	12	1	2	12	12	3/4			SPARE
SPARE			3/4	12	12	2	1	12	3	1	20	33	34	20	1	3	12	1	2	12	12	3/4			SPARE
SPARE			3/4	12	12	2	1	12	3	1	20	35	36	20	1	3	12	1	2	12	12	3/4			SPARE
SPARE			3/4	12	12	2	1	12	3	1	20	37	38	20	1	3	12	1	2	12	12	3/4			SPARE
SPARE			3/4	12	12	2	1	12	3	1	20	39	40	20	1	3	12	1	2	12	12	3/4			SPARE
SPARE			3/4	12	12	2	1	12	3	1	20	41	42	20	1	3	12	1	2	12	12	3/4			SPARE
	TOTALS	3900	8155																				7600	4560	TOTALS

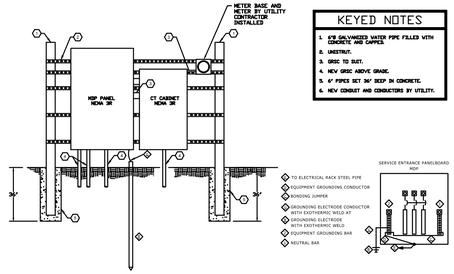
	WATTS
PHASE A LOAD:	11500
PHASE B LOAD:	12715
TOTALS:	24215

1

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	VOLTAGE	LAMP	MOUNTING	NOTES
A1	WAC LIGHTING	S2CPS12-FINISH WITH S2CS-FEB-FINISH, S2CSR-I-FINISH, AND S2CPS-EC-FINISH	120	NA	SURFACE	TRACK SYSTEM, LENGTH AS INDICATED ON THE PLANS. PROVIDE ALL FITTINGS AND ACCESSORIES FOR A COMPLETE INSTALLATION.
A2	WAC LIGHTING	S2SS-1-935-FINISH	120	LED	TRACK	TRACK HEAD
A3	WAC LIGHTING	S2DH24-2-P935-BK AND S2CPU-R600-2-BK	120	LED	TRACK	TRACK HEAD
B	VERSALED	RDL6-EN-24W-120B-5CT	UNV	LED	RECESSED	3.5" SQUARE RECESSED DOWNLIGHT
BE	VERSALED	RDL6-EN-24W-120B-5CT	UNV	LED	RECESSED	3.5" SQUARE RECESSED DOWNLIGHT WITH EM BATTERY
C2	VERSALED	ST7-2X35L-QT	UNV	LED	SURFACE	2FT LED STRIP, MOUNT ABOVE DOOR
C2E	VERSALED	ST7-2X35L-QT-EBLED	UNV	LED	SURFACE	2FT LED STRIP, MOUNT ABOVE DOOR W/ EM BATTERY
C4	VERSALED	ST7-4X35L-QT	UNV	LED	SURFACE	4FT LED STRIP
F	MERCURY LIGHTING	MLS3-NX-48-1100-35K-HTA-1/8-U	UNV	LED	RECESSED	4' RECESSED LINEAR
FE	MERCURY LIGHTING	MLS3-NX-48-1100-35K-HTA-1/8-U-EM12	UNV	LED	RECESSED	4' RECESSED LINEAR W/ EM BATTERY
G	VERSALED	ST11-S-82X40L-QT-35K-CBA	UNV	LED	SURFACE	8FT LOW PROFILE STRIP
HE	UTOPIA	CUBE2-CSW3-D1HL-35K-SF-UNV-1SE-STB-CBA-EMG8	UNV	LED	RECESSED	ARCHITECTURAL LINEAR
K	SSL	SSC10-17-SPM-UNV-935-95L-CBA-60-LD	UNV	LED	PENDANT	SWIVEL MOUNT CANOPY PENDANT
KE	SSL	SSC10-17-SPM-UNV-935-95L-CBA-60-LD-BBU	UNV	LED	PENDANT	SWIVEL MOUNT CANOPY PENDANT W/ EM BATTERY
L	PREMIER	ASU-GB-RNG1-160°-ADI-26.000L-XX	UNV	LED	PENDANT	CHANDELIER
EQ	EELP	OMEL-10W-EM120-SD WITH SW-SD SWITCH	UNV	LED	WALL	EMERGENCY EGRESS LIGHT
EM	EELP	SIEM-LED-SD	UNV	LED	WALL	EMERGENCY LIGHT
EX	EELP	EDG-1RC-EM-SD	UNV	LED	UNV	UNIVERSAL MOUNT EDGE LIT EXIT SIGN

NOTES: ALL FIXTURE COLORS TO BE SELECTED FROM MANUFACTURERS LIST OF STANDARD COLORS BY THE OWNER/ARCHITECT VERIFY PRIOR TO PURCHASE.

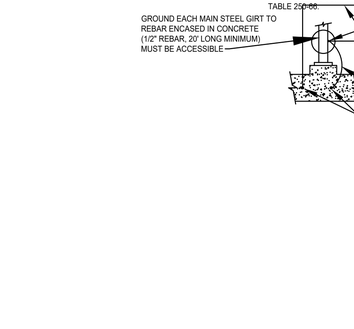


UNISTRUT DIAGRAM

SCALE: NONE

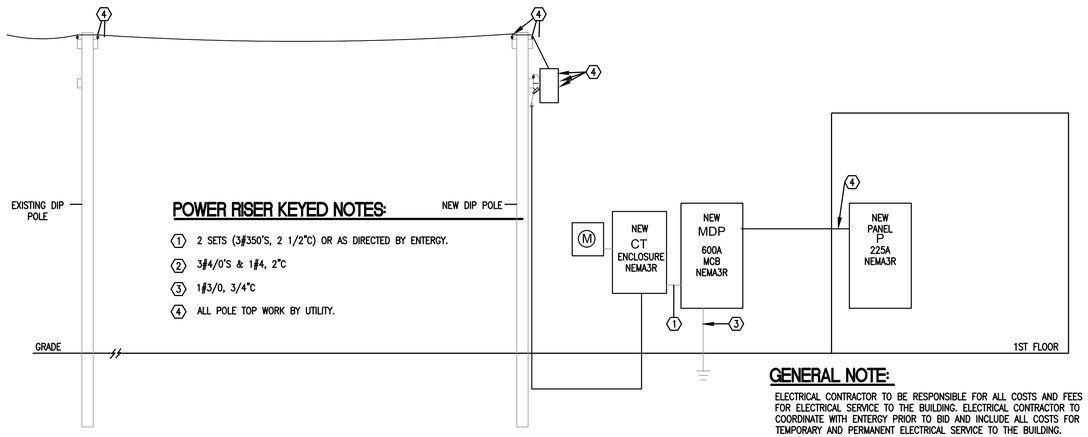
KEYED NOTES

1. 6'Ø GALVANIZED WATER PIPE FILLED WITH CONCRETE AND CAPPED.
2. UNISTRUT.
3. GRSC TO SUIT.
4. NEW GRSC ABOVE GRADE.
5. 6' PIPES SET 36' DEEP IN CONCRETE.
6. NEW CONDUIT AND CONDUCTORS BY UTILITY.



SERVICE GROUND DETAIL

SCALE: NONE



POWER RISER KEYED NOTES:

1. 2 SETS (3)#350'S, 2 1/2"C) OR AS DIRECTED BY ENTERGY.
2. 3)#4/0'S & 1)#4, 2"C
3. 1)#3/0, 3/4"C
4. ALL POLE TOP WORK BY UTILITY.

GENERAL NOTE:

ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR ALL COSTS AND FEES FOR ELECTRICAL SERVICE TO THE BUILDING. ELECTRICAL CONTRACTOR TO COORDINATE WITH ENTERGY PRIOR TO BID AND INCLUDE ALL COSTS FOR TEMPORARY AND PERMANENT ELECTRICAL SERVICE TO THE BUILDING.

POWER RISER DIAGRAM

SCALE: NONE

REVIVAL ARCHITECTURE
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PROJECT NAME:
SOUTHERN TENANT FARMERS UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents:
ELECTRICAL - SCHEDULES AND DETAILS

ISSUE DATE:
March 1, 2024
Revisions:
1 RE-BID
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Sheet No:
E-1.5

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NO. 5822
MICHAEL PRESTON HEBERT

3/1/24

HVAC LEGEND

ABBREVIATION OR SYMBOL	DESCRIPTION
AHU	AIR HANDLING UNIT
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNIT PER HOUR
CFM	CUBIC FEET PER MINUTE
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
D	DRAIN
DB	DRY BULB TEMPERATURE
DN	DOWN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE OF THE COIL
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
FCU	FAN COIL UNIT
FLR	FLOOR
FO	FLAT OVAL
FPM	FEET PER MINUTE (VELOCITY)
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE OF THE COIL
LWT	LEAVING WATER TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MIN	MINIMUM
MHP	MOTOR HORSEPOWER
NTS	NOT TO SCALE
OSA	OUTSIDE AIR
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RPM	REVOLUTION PER MINUTE
RTU	ROOF TOP (AIR CONDITIONING) UNIT
SA	SUPPLY AIR
SP	STATIC PRESSURE
TYP	TYPICAL
VAV	VARIABLE AIR VOLUME
WB	WET BULB TEMPERATURE
XFR	TRANSFER AIR
'	FEET
"	INCHES
ø	ROUND DUCT
Φ	OVAL DUCT

ABBREVIATION OR SYMBOL	DESCRIPTION
	CEILING SUPPLY DIFFUSER
	CEILING RETURN/EXHAUST GRILLE
	GRILLE OR REGISTER ON BOTTOM OF DUCTWORK
18/12 SA	SIDEWALL SUPPLY (RETURN SIMILAR)
18/12	RECTANGULAR DUCT WITH DUCT SIZE TAG
20ø	ROUND DUCT WITH DUCT SIZE TAG
20/14Φ	OVAL DUCT WITH DUCT SIZE TAG
24/24 SA	SUPPLY DUCT UP
24/24 SA	SUPPLY DUCT DOWN
24/24 RA	RETURN DUCT UP
24/24 RA	RETURN DUCT DOWN
24/24 EA	EXHAUST DUCT UP
24/24 EA	EXHAUST DUCT DOWN
18/18Φ 24/12	RECTANGULAR/OVAL TRANSITION
18ø 24/12	RECTANGULAR/ROUND TRANSITION
	FLEXIBLE DUCT CONNECTION
F (1) M (3) S (2) C (4)	(1) FIRE DAMPER (2) SMOKE DAMPER (3) MOTORIZED DAMPER (4) CONTROL DAMPER
(1) SD (2)	(1) BALANCING DAMPER (2) SMOKE DETECTOR
250	BALANCING DAMPER, SET TO INDICATED CFM

ABBREVIATION OR SYMBOL	DESCRIPTION
	NEW EQUIPMENT
	EXISTING EQUIPMENT TO REMAIN
	EXISTING EQUIPMENT TO BE REMOVED
	NEW DUCT
	EXISTING DUCT TO REMAIN
	DEMOLISH EXISTING DUCT BACK TO POINT.
	CONNECT TO EXISTING DUCT.

AIR DEVICE "MARK" — C/350 — AIRFLOW CFM

AIR DEVICE DESIGNATION

DETAIL/SECTION NUMBER

2 / M1.1

DETAIL/SECTION DESIGNATION

SHEET NUMBER

T VAV-2 S — THERMOSTAT OR SENSOR. (SUBSCRIPT DESIGNATES CONTROLLED EQUIPMENT)

2 — KEYED NOTE

* NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT

MECHANICAL GENERAL NOTES:

1. ALL MECHANICAL WORK SHALL COMPLY WITH ALL LOCAL CODES, DRAWINGS, SPECIFICATIONS, AND AUTHORITIES HAVING JURISDICTION. IF DISCREPANCIES ARE FOUND, THE MOST STRINGENT REQUIREMENT SHALL GOVERN WORK. WHERE INSPECTIONS ARE REQUIRED BY AUTHORITIES HAVING JURISDICTION, WORK MUST NOT BE CONCEALED UNTIL INSPECTIONS AND TESTING ARE COMPLETE AND WORK IS ACCEPTED.
2. REFER TO SPECIFICATIONS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. REFER TO ALL PROJECT DRAWINGS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS.
4. PRIOR TO BID, CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THESE NOTES AS WELL AS OTHER NOTES SHOWN ON THE CONTRACT DOCUMENTS.
5. THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIED REFERENCE PRODUCTS, THE SELECTION OF WHICH HAS INFLUENCED THE DESIGNS OF OTHER TRADES. IF SUBSTITUTE MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE BID OR SUBMITTED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL DIFFERENCES PRIOR TO BID. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE SUBSTITUTION SHALL BE INCLUDED IN THE BID.
6. COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM SUBSTITUTION OF EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUBSTITUTIONS WHICH ARE INSTALLED AND SUBSEQUENTLY ARE PROVEN UNSATISFACTORY BY OWNER AND/OR ENGINEER WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
7. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT.
8. INFORMATION AND COMPONENTS ON DETAILS OR IN SPECIFICATIONS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
9. CONTRACTOR SHALL NOT SCALE DRAWINGS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY THE CONTRACT DOCUMENTS.
10. EXACT LOCATIONS OF ALL EQUIPMENT, ROOF CURBS, DUCTS, DIFFUSERS, AND PIPING SHALL BE COORDINATED WITH OTHER TRADES. CEILING MOUNTED SPRINKLER, LIGHTING, AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING GRID AND LIGHTING LAYOUT FOR COORDINATION OF FINAL DIFFUSER LOCATIONS.
11. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS AND DIMENSIONS. COORDINATE PLACEMENT OF MECHANICAL SYSTEMS WITH ARCHITECTURAL AND STRUCTURAL TRADES.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES. REFER TO ALL CONSTRUCTION DOCUMENTS FOR COMPLETE INFORMATION PRIOR TO BID.
13. ALL MECHANICAL CONSTRUCTION DETAILS SHALL BE AS SHOWN AND AS REQUIRED TO MAINTAIN "UL" ASSEMBLY RATINGS AS SHOWN ON ARCHITECTURAL SHEETS. SEAL AROUND ALL PENETRATIONS THOROUGH UL RATED ASSEMBLIES, FIRE AND SMOKE WALLS. COORDINATE WITH GENERAL CONTRACTOR.
14. NO OTHER TRADES, I.E., ELECTRICAL, CEILING, PLUMBING, OR OTHER SYSTEMS SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM DUCTWORK OR PIPING.
15. SPECIAL CARE SHALL BE TAKEN ON ROOFS TO PREVENT DAMAGE. ANY DAMAGE SHALL BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER. COMPLY WITH BONDING REQUIREMENTS OF ROOF.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING AND SEALING OF ALL ROOF PENETRATIONS AIR AND WATER TIGHT.
17. CLOSELY COORDINATE FINAL LOCATIONS OF INSTALLED EQUIPMENT TO ACHIEVE THE GREATEST ACCESSIBILITY FOR MAINTENANCE PURPOSES.
18. CONTRACTOR SHALL VISIT THE SITE TO ESTABLISH THE EXISTING CONDITIONS PRIOR TO DUCT, PIPE OR EQUIPMENT FABRICATION. SYSTEMS SHALL BE ERECTED USING FIELD MEASUREMENTS FOR COORDINATION WITH THE EXISTING EQUIPMENT, STRUCTURE, FIRE PROTECTION AND ELECTRICAL IN THE SPACE.
19. MAINTAIN THE SECURITY OF THE BUILDING AT ALL TIMES.
20. CORE DRILL ALL PIPING PENETRATIONS OF CONCRETE WALLS AND FLOORS.
21. ALL HVAC WORK TO BE PER SMACNA AND ALL APPLICABLE CODES. DUCT SIZES REPRESENT FREE AREA.
22. ALL LOW PRESSURE DUCTWORK THAT HAS TO BE OFFSET DUE TO AN OBSTRUCTION SHALL BE OFFSET WITH TWO - 45 DEGREE, 1.5 RADIUS ELBOWS UNLESS OTHERWISE NOTED.
23. PROVIDE ACCESS DOORS IN WALLS, FLOORS, OR CEILINGS FOR ACCESS TO ALL FIRE DAMPERS, SMOKE DAMPERS, EQUIPMENT, COILS, VALVES, AND BALANCING DAMPERS. ACCESS DOORS ARE NOT REQUIRED WHERE DEVICES ARE DIRECTLY ACCESSIBLE THROUGH AIR DEVICES.
24. PROVIDE FIRE, SMOKE, AND COMBINATION FIRE AND SMOKE DAMPERS IN ALL DUCT PENETRATIONS OF RATED WALLS ACCORDING TO THE FOLLOWING SCHEDULE: 1 HOUR FIRE WALL - PROVIDE FIRE DAMPER IN ALL DUCTS WITH FREE AREA GREATER THAN 100 SQUARE INCHES; 2 HOUR FIRE WALL - PROVIDE FIRE DAMPER; 2 HOUR SMOKE WALL - PROVIDE SMOKE DAMPER; 2 HOUR FIRE AND SMOKE WALL - PROVIDE COMBINATION FIRE AND SMOKE DAMPER
25. DUCT FITTINGS ARE AS FOLLOWS: 1) FLEX DUCT IS ONLY PERMITTED IN LINEAR DUCT RUNS. FLEX DUCT SHALL NOT BE USED WHERE DUCTWORK CHANGES DIRECTION. ALL ELBOWS SHALL BE HARD DUCTED. 2) ALL 90 DEGREE ELBOWS TO HAVE R/D = 1.5, UNLESS OTHERWISE NOTED. 3) ALL MITERED RECTANGULAR ELBOWS GREATER THAN 90 DEGREES NOTED ARE TO HAVE TURNING VANES. 4) SIDE TAKE-OFF FITTINGS SHALL BE EQUAL TO FLEXMASTER STODB03. 5) DAMPERS SHALL BE EQUAL TO FLEXMASTER SLDB03
26. PROVIDE BRANCH TAKEOFF AND DAMPER AT EACH CONNECTION OF ROUND OR RECTANGULAR BRANCH DUCTS TO A RECTANGULAR DUCT, SEE DETAILS.
27. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF FIRE AND SMOKE WALLS.
28. MAINTAIN A MINIMUM OF 10'-0" BETWEEN ALL FRESH AIR INTAKES AND PLUMBING VENTS, EXHAUST FAN DISCHARGE, AND FLUES. MAINTAIN MINIMUM CLEAR DISTANCE OF 5'0" BETWEEN PARAPET WALL AND ALL ROOF MOUNTED MECHANICAL EQUIPMENT.
29. ALL ROOF MOUNTED EQUIPMENT SHALL BE PROVIDED WITH MANUFACTURER'S FABRICATED CURBS WHICH FACILITATE LEVEL MOUNTING OF THE EQUIPMENT (I.E. FACTORY FABRICATED TO COMPENSATE FOR ROOF SLOPE). OBTAIN ROOF SLOPES AND DIRECTION OF SLOPE FROM ARCHITECTURAL AND/OR STRUCTURAL PLANS. ALL ROOF CURBS SHALL BE A MINIMUM OF 8" HIGH. SHIMMING OF CURBS IS NOT ACCEPTABLE.
30. ROOF PENETRATIONS AND FLASHING OR SEALING MUST COMPLY WITH ROOF MANUFACTURER'S RECOMMENDATIONS AND WARRANTY REQUIREMENTS.
31. ALL DUCTS SHALL BE MOUNTED HIGH AS POSSIBLE AGAINST BOTTOM OF STRUCTURE EXCEPT AS REQUIRED TO AVOID CONFLICTS WITH INTERSECTING SYSTEMS. DIAGONALLY OFFSET DUCTS IMMEDIATELY BEFORE AND AFTER PASSING UNDER INTERSECTING SYSTEMS TO MAINTAIN DUCT TIGHT TO STRUCTURE.
32. CONTRACTOR SHALL FIELD VERIFY ALL PIPE ROUTING AND ADJUST ELEVATIONS AS REQUIRED TO AVOID CONFLICTS. FINAL PLACEMENT OF PIPING SHALL BE DETERMINED BY FIELD MEASUREMENT AND VERIFICATION. ELEVATIONS ARE REFERENCED TO PIPE CENTERLINE UNLESS OTHERWISE NOTED.
33. DUCTWORK SHALL CONFORM TO THE FOLLOWING PRESSURE CLASSES: SUPPLY: 2" SP; RETURN/RELIEF/OUTSIDE AIR/EXHAUST: 2" SP. ALL DUCTWORK IS REQUIRED TO BE TESTED IN ACCORDANCE WITH THE SPECIFICATIONS.
34. ALL EQUIPMENT, DEVICES, AND FIXTURES SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION.
35. CONTRACTOR SHALL VERIFY CLOSELY AT SITE TRANSPORTATION OF NEW HVAC EQUIPMENT INTO MECHANICAL AREAS BEFORE BIDDING. PROVIDE COMPLETE DISASSEMBLY AND RE-ASSEMBLY OF NEW EQUIPMENT AS REQUIRED FOR A COMPLETE INSTALLATION.
36. PROVIDE FLEXIBLE CONNECTIONS AND TRANSITIONS ON DUCT INLET AND OUTLET CONNECTIONS TO ALL EQUIPMENT WITH MOVING PARTS.
37. DUCTWORK VISIBLE THROUGH RETURN AIR OPENINGS SHALL BE PAINTED FLAT BLACK TO REDUCE VISIBILITY.
38. EXPOSED DUCTWORK AND PIPING SHALL BE FURNISHED SUITABLE FOR PAINTING, AND SHALL BE PAINTED AS REQUIRED BY ARCHITECTURAL SPECIFICATIONS.
39. NOT ALL REQUIRED PIPING, VALVES, OR FITTINGS ARE SHOWN ON DRAWINGS FOR CLARITY. COORDINATE PLAN DETAILS WITH SPECIFICATIONS, SCHEMATICS, FLOW DIAGRAMS, AND OTHER DETAILS TO PROVIDE COMPLETE PIPING SYSTEMS.
40. COORDINATE WORK CLOSELY WITH CONTROL REQUIREMENTS. PROVIDE ALL NECESSARY DUCT TAPS, PIPE TAPS, WELLS, AND OTHER APPURTENANCES REQUIRED BY CONTROL SYSTEM. PROVIDE SPARE PIPE WELL ADJACENT TO EACH TEMPERATURE SENSOR IN PIPING.
41. REFER TO ARCHITECTURAL PLANS FOR CEILING GRILLE AND DIFFUSER LOCATIONS, FOR CEILING TYPE, AND FOR MOUNTING REQUIREMENTS. CONTRACTOR SHALL PROVIDE AND INSTALL ALL AIR DEVICES WITH MOUNTING SYSTEM DESIGNED FOR MOUNTING SURFACE TYPE.
42. COORDINATE FINAL PLACEMENT OF ALL THERMOSTATS WITH WALL-MOUNTED DEVICES AND OWNER'S REPRESENTATIVE. MOUNT PER A.D.A. REQUIREMENTS. ANY THERMOSTAT THAT IS REQUIRED TO BE MOUNTED ON AN EXTERIOR WALL SHALL BE MOUNTED ON AN INSULATED PAD.
43. INSTALL SMOKE DETECTOR IN SUPPLY AND RETURN DUCT OF ALL AIR HANDLERS SUPPLYING GREATER THAN 2,000 CFM.
44. PROVIDE CONCRETE PADS FOR ALL GROUND MOUNTED EQUIPMENT.
45. REPLACE ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK.
46. CONTRACTOR SHALL PATCH ALL WALLS, FLOORS, AND CEILINGS TO MATCH NEW FOR ALL OPENINGS CREATED BY INSTALLATION OF EQUIPMENT AND HVAC SERVICE PENETRATIONS.
47. ALL SUPPLY, RETURN, RELIEF, AND OUTSIDE AIR DUCTWORK SHALL BE EXTERNALLY INSULATED EXCEPT WHERE LINER, DOUBLE WALL LINED DUCT, OR FABRIC DUCT IS INDICATED. INSULATE TOPS OF SUPPLY AIR DIFFUSERS WITH 2" THICK FIBERGLASS DUCT WRAP. DO NOT INSULATE EXHAUST DUCTWORK EXCEPT FOR FIRE WRAP ON KITCHEN HOOD EXHAUST.
48. REFER TO SPECIFICATIONS FOR INSULATION AND R-VALUES FOR MECHANICAL PIPING AND DUCTWORK INSULATION.
49. SEE ARCHITECTURAL PLANS FOR ROOF PENETRATION DETAILS.
50. ALL HVAC COMPONENTS WITH ELECTRICAL REQUIREMENTS SHALL BE INSTALLED WITH ELECTRICAL INFRASTRUCTURE NECESSARY TO PROVIDE A FULLY FUNCTIONING SYSTEM. IF NOT SPECIFICALLY SHOWN ON ELECTRICAL SCHEDULE, HVAC FIXTURES REQUIRING ELECTRICAL SERVICE SHALL BE FED FROM BREAKER OF ADEQUATE CAPACITY.
51. ALL CONTROL WIRING SHALL BE INSTALLED IN CONDUIT.
52. PLENUM CABLING SHALL HAVE ITS OWN SYSTEM OF SUPPORT AND BE STRUCTURALLY SOUND. ATTACHMENT TO CEILING GRID AND HANGER WIRES IS PROHIBITED. WHERE NOT INSTALLED IN CONDUIT, CABLING SHALL BE RUN IN CABLE HOOKS. CABLING LAYING ON CEILING TILES IS PROHIBITED.
53. CONTRACTOR SHALL PROVIDE FURR DOWN AND ANY OTHER CEILING MODIFICATIONS NEEDED TO ACCOMMODATE DUCTWORK PENETRATIONS.
54. PROVIDE ALL HVAC UNITS WITH AN EXTRA SET OF MANUFACTURER'S RECOMMENDED FILTERS AFTER PROJECT COMPLETION.

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CERTIFICATE OF AUTHORIZATION — TRU ENGINEERING, LLC — No. 6808 — STATE OF ARKANSAS

Project Name:
SOUTHERN TENANT FARMER'S UNION GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

SHEET CONTENTS:
MECHANICAL NOTES AND LEGENDS

ISSUE DATE
March 1, 2024

REVISIONS
1 RE-BID
April 19, 2024

SHEET NO.
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CONTROL NOTES

ALL SETPOINTS SHALL BE ADJUSTABLE BY OWNER.

MSFC/MSHP
PROVIDE WITH HARD-WIRED, PROGRAMMABLE THERMOSTAT MOUNTED NEXT TO UNIT. COOLING SHALL BE SET TO 75 F AND HEATING SHALL BE SET TO 70F.
UNITS 1-6 SHALL BE CONTROLLED BASED OFF OF MANUFACTURER PROVIDED UNIT RETURN AIR TEMPURATURE SENSOR. UNIT 7 SHALL BE CONTROLLED BY THERMOSTAT TEMPERATURE SENSOR.

RTU-1
PROVIDE WITH HARD-WIRED, PROGRAMMABLE THERMOSTAT. COOLING SHALL BE SET TO 75 F AND HEATING SHALL BE SET TO 70 F. REFER TO HVAC PLAN FOR THERMOSTAT LOCATION.

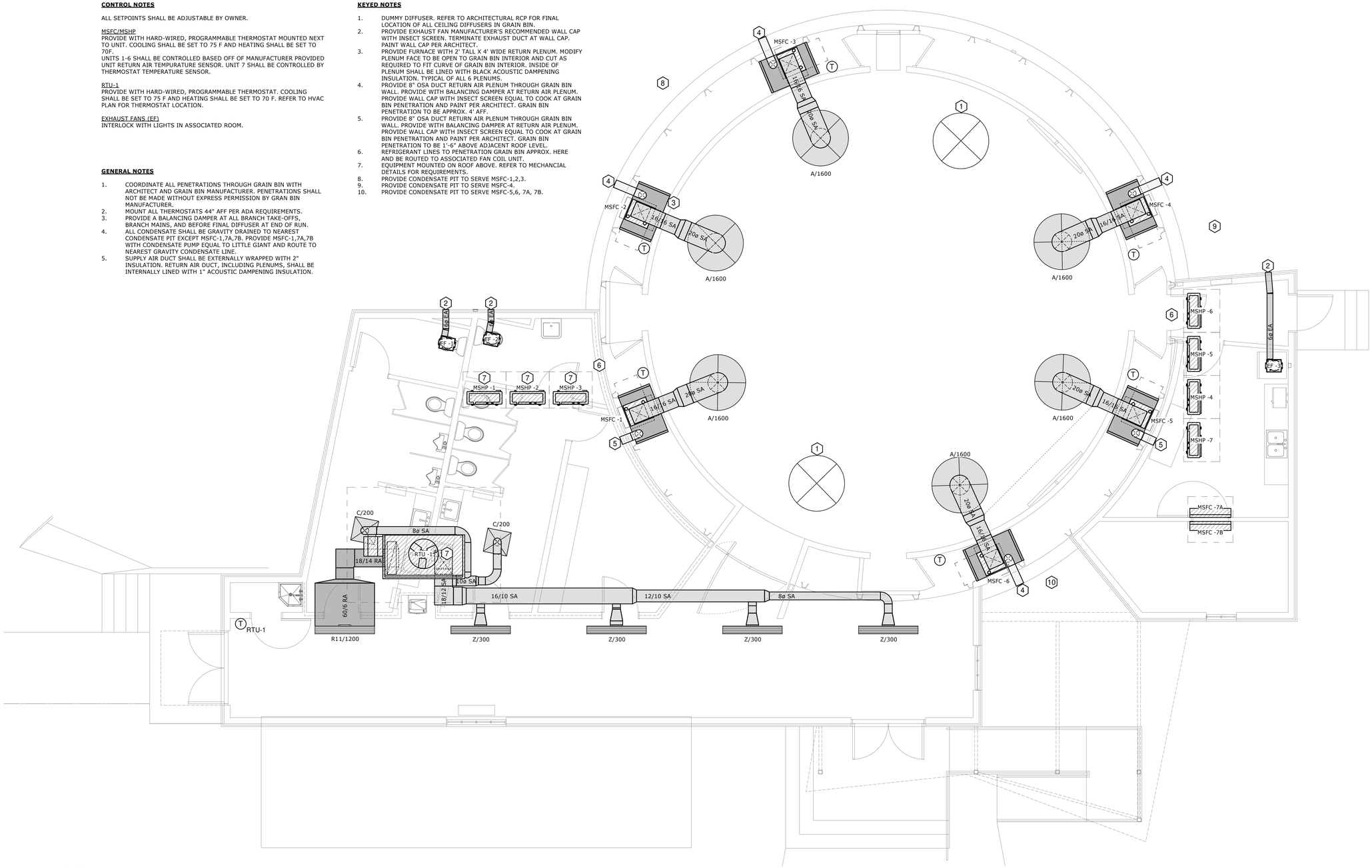
EXHAUST FANS (EF)
INTERLOCK WITH LIGHTS IN ASSOCIATED ROOM.

GENERAL NOTES

1. COORDINATE ALL PENETRATIONS THROUGH GRAIN BIN WITH ARCHITECT AND GRAIN BIN MANUFACTURER. PENETRATIONS SHALL NOT BE MADE WITHOUT EXPRESS PERMISSION BY GRAN BIN MANUFACTURER.
2. MOUNT ALL THERMOSTATS 44" AFF PER ADA REQUIREMENTS.
3. PROVIDE A BALANCING DAMPER AT ALL BRANCH TAKE-OFFS, BRANCH MAINS, AND BEFORE FINAL DIFFUSER AT END OF RUN.
4. ALL CONDENSATE SHALL BE GRAVITY DRAINED TO NEAREST CONDENSATE PIT EXCEPT MSFC-1,7A,7B. PROVIDE MSFC-1,7A,7B WITH CONDENSATE PUMP EQUAL TO LITTLE GIANT AND ROUTE TO NEAREST GRAVITY CONDENSATE LINE.
5. SUPPLY AIR DUCT SHALL BE EXTERNALLY WRAPPED WITH 2" INSULATION. RETURN AIR DUCT, INCLUDING PLENUMS, SHALL BE INTERNALLY LINED WITH 1" ACOUSTIC DAMPENING INSULATION.

KEYED NOTES

1. DUMMY DIFFUSER. REFER TO ARCHITECTURAL RCP FOR FINAL LOCATION OF ALL CEILING DIFFUSERS IN GRAIN BIN.
2. PROVIDE EXHAUST FAN MANUFACTURER'S RECOMMENDED WALL CAP WITH INSECT SCREEN. TERMINATE EXHAUST DUCT AT WALL CAP. PAINT WALL CAP PER ARCHITECT.
3. PROVIDE FURNACE WITH 2' TALL X 4' WIDE RETURN PLENUM. MODIFY PLENUM FACE TO BE OPEN TO GRAIN BIN INTERIOR AND CUT AS REQUIRED TO FIT CURVE OF GRAIN BIN INTERIOR. INSIDE OF PLENUM SHALL BE LINED WITH BLACK ACOUSTIC DAMPENING INSULATION. TYPICAL OF ALL 6 PLENUMS.
4. PROVIDE 8" OSA DUCT RETURN AIR PLENUM THROUGH GRAIN BIN WALL. PROVIDE WITH BALANCING DAMPER AT RETURN AIR PLENUM. PROVIDE WALL CAP WITH INSECT SCREEN EQUAL TO COOK AT GRAIN BIN PENETRATION AND PAINT PER ARCHITECT. GRAIN BIN PENETRATION TO BE APPROX. 4' AFF.
5. PROVIDE 8" OSA DUCT RETURN AIR PLENUM THROUGH GRAIN BIN WALL. PROVIDE WITH BALANCING DAMPER AT RETURN AIR PLENUM. PROVIDE WALL CAP WITH INSECT SCREEN EQUAL TO COOK AT GRAIN BIN PENETRATION AND PAINT PER ARCHITECT. GRAIN BIN PENETRATION TO BE 1'-6" ABOVE ADJACENT ROOF LEVEL.
6. REFRIGERANT LINES TO PENETRATION GRAIN BIN APPROX. HERE AND BE ROUTED TO ASSOCIATED FAN COIL UNIT.
7. EQUIPMENT MOUNTED ON ROOF ABOVE. REFER TO MECHANCIAL DETAILS FOR REQUIREMENTS.
8. PROVIDE CONDENSATE PIT TO SERVE MSFC-1,2,3.
9. PROVIDE CONDENSATE PIT TO SERVE MSFC-4.
10. PROVIDE CONDENSATE PIT TO SERVE MSFC-5,6, 7A, 7B.



1 HVAC PLAN

1/4" = 1'-0"

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No. 6608
ARKANSAS

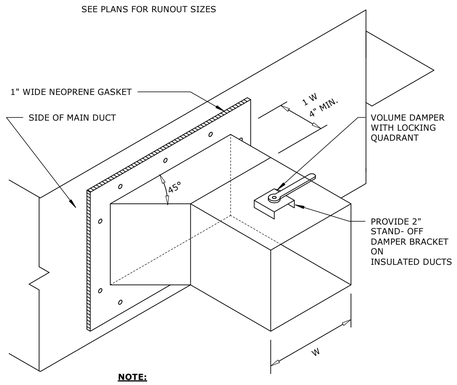
Project Name:
SOUTHERN TENANT FARMER'S UNION GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

SHEET CONTENTS:
HVAC PLAN

ISSUE DATE:
March 1, 2024

REVISIONS:
1 RE-BID
April 19, 2024

SHEET NO.
M1.1

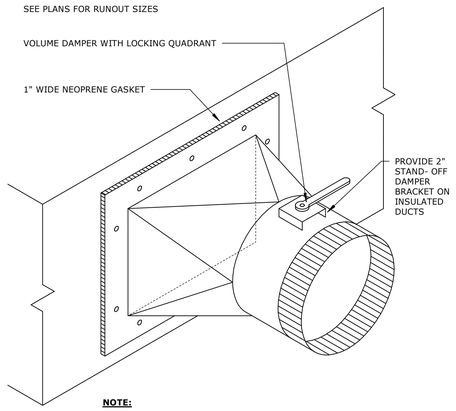


NOTE:

1. DAMPER SHALL BE EQUAL TO RUSKIN MD35.

1 -BRANCH DUCT FITTING-RECTANGULAR

NOT TO SCALE

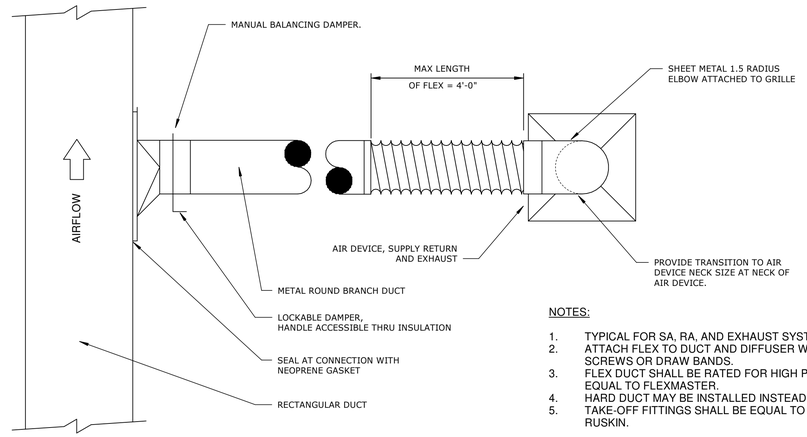


NOTE:

1. SIDE TAKE-OFF FITTINGS SHALL BE EQUAL TO FLEXMASTER STOD.

2 -BRANCH DUCT FITTING-ROUND

NOT TO SCALE

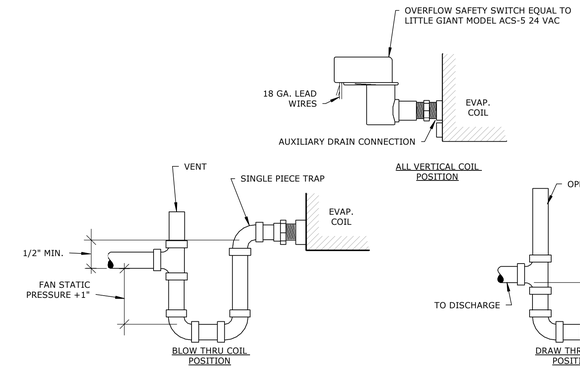


NOTES:

1. TYPICAL FOR SA, RA, AND EXHAUST SYSTEMS.
2. ATTACH FLEX TO DUCT AND DIFFUSER WITH SHEET METAL SCREWS OR DRAW BANDS.
3. FLEX DUCT SHALL BE RATED FOR HIGH PRESSURE AND EQUAL TO FLEXMASTER.
4. HARD DUCT MAY BE INSTALLED INSTEAD OF FLEX DUCT.
5. TAKE-OFF FITTINGS SHALL BE EQUAL TO FLEXMASTER OR RUSKIN.

3 -BRANCH DUCT TAKE OFF

NOT TO SCALE

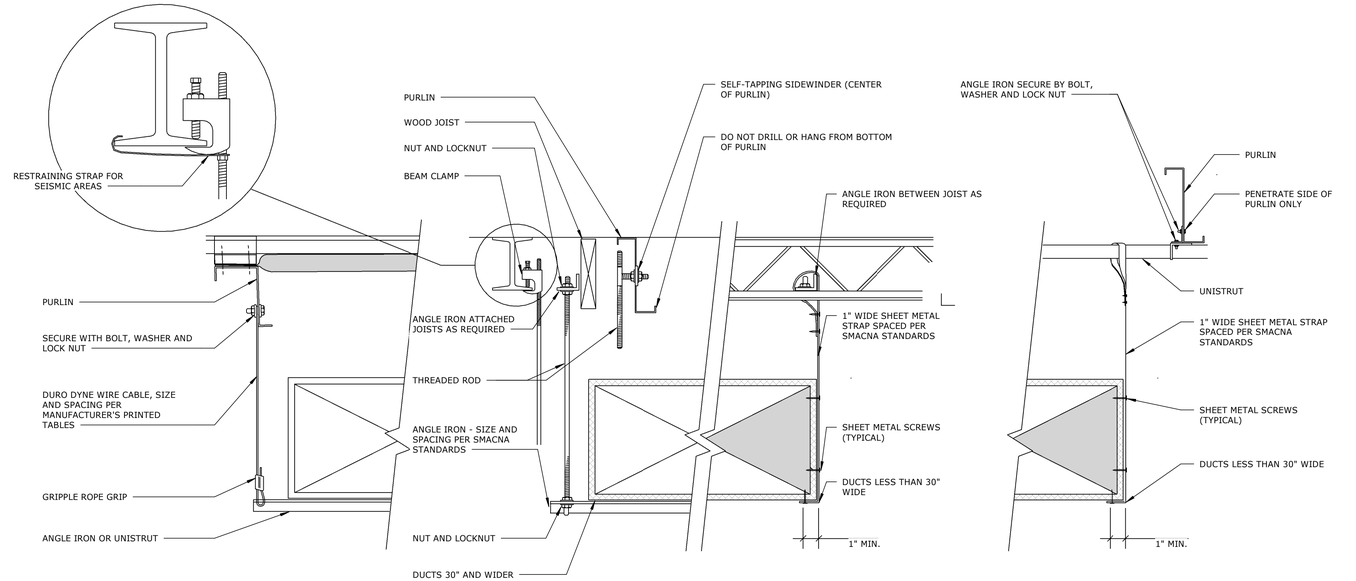


NOTES:

1. RUNNING TRAPS WILL NOT BE ACCEPTED.
2. INSTALL FACTORY FURNISHED TRAP WITH OUTSIDE AIR UNITS.
3. CONDENSATE DISCHARGE LOCATION SHALL MEET REQUIREMENTS OF ALL LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.

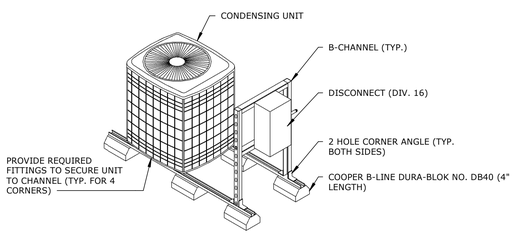
4 -CONDENSATE TRAP

NOT TO SCALE



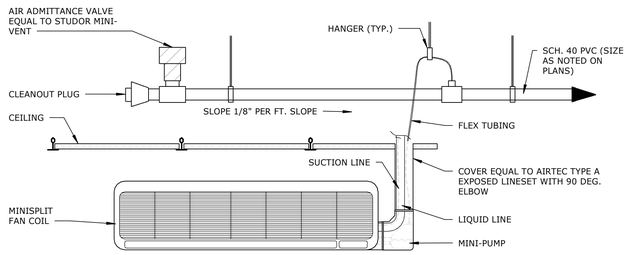
5 DUCT SUPPORT

NOT TO SCALE



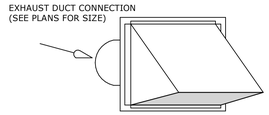
6 -CONDENSER ROOF MOUNTING W/ DISCONNECT

NOT TO SCALE



7 -DUCTLESS WALL MINISPLIT

NOT TO SCALE



NOTES:

1. COORDINATE WITH ARCHITECT FOR FINAL LOCATION OF ALL PENETRATIONS WITH WALL CAP.
2. WALL CAP SHALL BE EQUAL TO LOREN COOK. FOR USE IN LOW-VOLUME EXHAUST APPLICATIONS (300 CFM OR LESS).
3. WALL CAP SHALL HAVE BIRDSCREEN AND BACKDRAFT DAMPER.
4. PAINT WALL CAP TO MATCH WALL.
5. MAINTAIN ALL CODE REQUIRED CLEARANCES FROM OUTSIDE AIR INTAKES, DOORS, AND OPERABLE WINDOWS.

8 -EXHAUST WALL CAP

NOT TO SCALE

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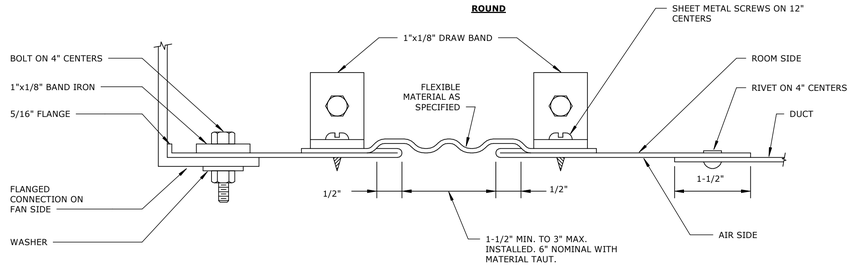
TYRONZA, ARKANSAS 72386

SHEET CONTENTS:
MECHANICAL DETAILS I

ISSUE DATE
March 1, 2024

REVISIONS
1 RE-BID
April 19, 2024

SHEET NO.
M2.1

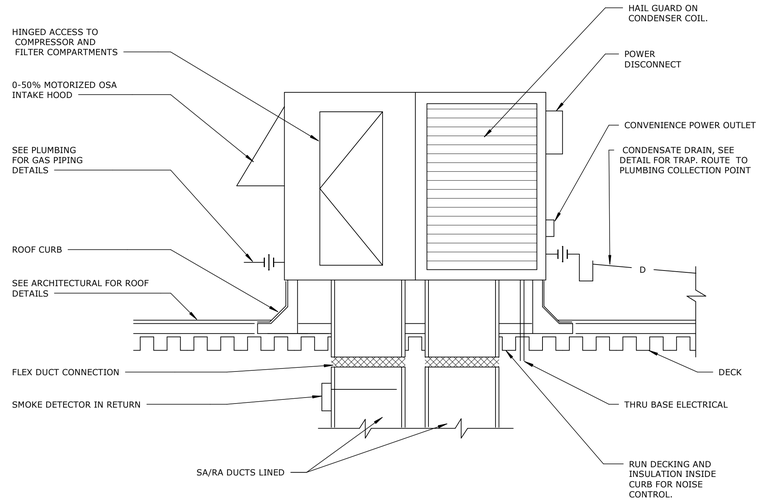


NOTES:

1. FLEXIBLE CONNECTIONS SHALL BE MADE AT ALL SUPPLY AND RETURN CONNECTIONS OF DUCTWORK TO AIR HANDLING UNITS. ALL CONNECTIONS SHALL BE AS PER SMACNA.

1 -FLEXIBLE CONNECTION

NOT TO SCALE



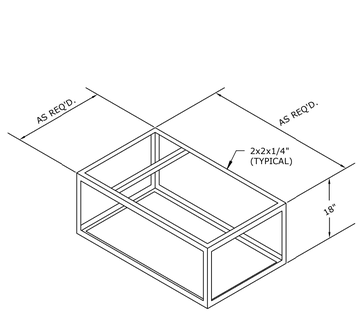
ROOF CURB TO BE PROVIDED BY THE UNIT MANUFACTURER. COORDINATE ALL REQUIREMENTS WITH GENERAL CONTRACTOR FOR SLOPE AND ROOF CONSTRUCTION. ROOFING CONTRACTOR TO INSTALL CURB AND FLASH WEATHER TIGHT.

DESIGNER NOTES:

1. VERIFY USE OF LINER.

2 -PACKAGED UNIT - ROOF

NOT TO SCALE

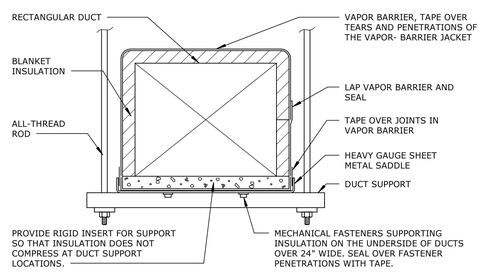


NOTES:

1. COVER TOP, BOTTOM, AND EXPOSED SIDES WITH 20 GA. SHEET METAL - SEAL JOINTS AIR TIGHT.
2. COVER ALL INTERIOR SURFACES OF PLENUM WITH 1" 3# DENSITY COATED FIBERGLASS LINER.
3. IF THERE ARE MULTIPLE FURNACE PLENUMS IN AN AREA, PROVIDE DIVIDER PIECE FOR EACH PLENUM.

3 -FURNACE PLENUM

NOT TO SCALE

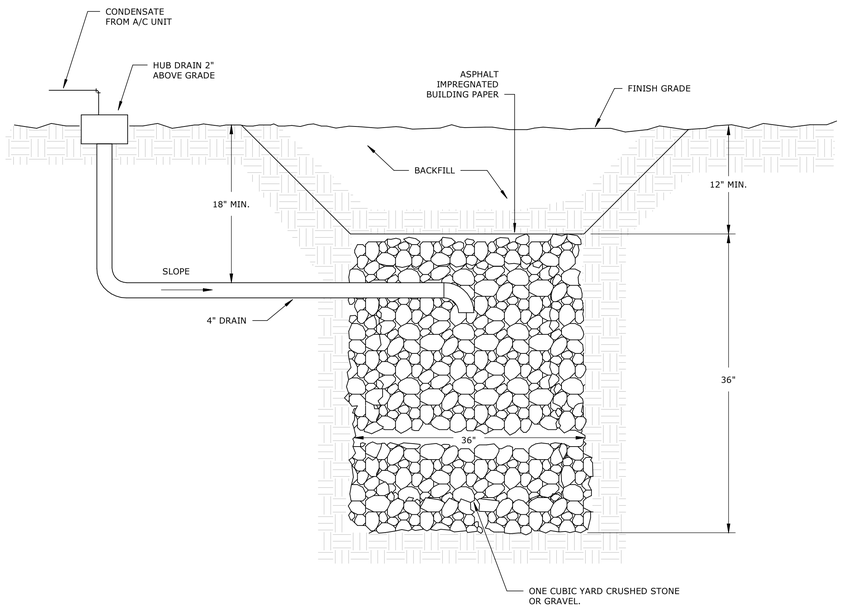


NOTES:

1. PROVIDE SADDLES AT DUCT SUPPORT POINTS.
2. DO NOT TAKE DUCT SUPPORTS OR STRAPS INTO THE INSULATION.
3. PROVIDE INSULATION INSERT SO THAT INSULATION DOES NOT COMPRESS FROM WEIGHT OF DUCT.
4. PROVIDE SEMI-RIGID INSULATION ON ALL DUCTWORK IN MECHANICAL EQUIPMENT ROOMS AND OTHER HIGH ABUSE AREAS.
5. IN AREAS WHERE SPACE LIMITS INSTALLATION OF TRAPEZE SYSTEM SHOWN, LOW PROFILE DUCT SUPPORT SYSTEM MAY BE PERMITTED. SYSTEM TO BE EQUAL TO GRIPPLE. ALL SYSTEMS SHALL BE APPROVED BY SMACNA OR WILL NOT BE PERMITTED.

4 -INSULATION AT DUCT SUPPORT

NOT TO SCALE



5 AREA CONDENSATE DRAIN

NOT TO SCALE

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
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CERTIFICATE OF AUTHORIZATION
TRU ENGINEERING, LLC
No. 6608
STATE OF ARKANSAS

Project Name:
SOUTHERN TENANT FARMER'S UNION GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

SHEET CONTENTS:
MECHANICAL DETAILS II

ISSUE DATE
March 1, 2024

REVISIONS
1 RE-BID
April 19, 2024

SHEET NO.
M2.2

HVAC -- PACKAGED UNIT SCHEDULE

DESIGNATION					AIRFLOWS		SUPPLY FAN	COOLING DATA					HEATING DATA			ELECTRCIAL DATA				
									ENTERING		LEAVING									
TYPE	MARK	DESCRIPTION	MANUFACTURER	MODEL	SUPPLY AIR	OUTSIDE AIR (MINIMUM)	EXTERNAL STATIC PRESS.	NOMINAL COOLING	DB	WB	DB	WB	TYPE	HEAT PUMP	ELECTRIC	VOLTAGE	PHASE	MCA	MOCP	WEIGHT
RTU	1	PACKAGED UNITARY GAS AIR HANDLING UNIT	RHEEM	ZR	1,650 CFM	200 CFM	0.50 in-wg	5.0 ton	77.0 °F	63.6 °F	56.0 °F	55.0 °F	HEAT PUMP W/ AUX. ELECTRIC	57,000 Btu/h	15.0 kW	208 V	1	115.0 A	125 A	700 lb

1. PROVIDE WITH 2-STAGE LEAD COMPRESSOR, 2-AUX. HEAT, 100% OSA ECONOMIZER WITH DUAL-ENTHALPY CONTROL.
2. PROVIDE WITH LOCAL DISCONNECT, POWERED CONVENIENCE OUTLET, STAINLESS STEEL DRAIN PAN, PHASE AND BROWN-OUT PROTECTION, HAIL GUARD, OSA INTAKE HOOD WITH BIRD SCREEN.
3. PROVIDE WITH TOOLESS ACCESS ON CABINET DOORS.
4. PROVIDE WITH STANDARD 20" ROOF CURB WITH VIBRATION ISOLATION.
5. PROVIDE WITH 2" PLEATED MERV 8 FILTERS.
6. UNITS SHALL BE SELECTED AT AMBIENT CONDITIONS OF: 100 F DB AND 77 F WB.
7. UNITS SHALL MEET CURRENT ENERGY CODE MINIMUM EFFICIENCY REQUIREMENTS.
8. ALL UNITS WITH 2,000 CFM SUPPLY AND OVER SHALL BE PROVIDED WITH SA/RA SMOKE DETECTION.
9. APPROVED ALTERNATE MANUFACTURERS SHALL BE TEMPMASTER, TRANE, CARRIER.

HVAC -- MINISPLIT FAN COIL SCHEDULE

DESIGNATION					AIRFLOW DATA		TOTAL COOLING CAPACITY	TOTAL HEATING CAPACITY	ELECTRICAL DATA		REMARKS
TYPE	MARK	DESCRIPTION	MANUFACTURER	MODEL	DESIGN SUPPLY AIR (HIGH SPEED)	MIN. OSA			VOLTAGE	PHASE	
MSFC	1	MULTI-POSITION FAN COIL	SAMSUNG	AC048BNZDCH	1,600 CFM	100 CFM	48,000 Btu/h	53,000 Btu/h	208 V	1	INDOOR UNIT SHALL BE POWERED THROUGH OUTDOOR UNIT.
MSFC	2	MULTI-POSITION FAN COIL	SAMSUNG	AC048BNZDCH	1,600 CFM	100 CFM	48,000 Btu/h	53,000 Btu/h	208 V	1	INDOOR UNIT SHALL BE POWERED THROUGH OUTDOOR UNIT.
MSFC	3	MULTI-POSITION FAN COIL	SAMSUNG	AC048BNZDCH	1,600 CFM	100 CFM	48,000 Btu/h	53,000 Btu/h	208 V	1	INDOOR UNIT SHALL BE POWERED THROUGH OUTDOOR UNIT.
MSFC	4	MULTI-POSITION FAN COIL	SAMSUNG	AC048BNZDCH	1,600 CFM	100 CFM	48,000 Btu/h	53,000 Btu/h	208 V	1	INDOOR UNIT SHALL BE POWERED THROUGH OUTDOOR UNIT.
MSFC	5	MULTI-POSITION FAN COIL	SAMSUNG	AC048BNZDCH	1,600 CFM	100 CFM	48,000 Btu/h	53,000 Btu/h	208 V	1	INDOOR UNIT SHALL BE POWERED THROUGH OUTDOOR UNIT.
MSFC	6	MULTI-POSITION FAN COIL	SAMSUNG	AC048BNZDCH	1,600 CFM	100 CFM	48,000 Btu/h	53,000 Btu/h	208 V	1	INDOOR UNIT SHALL BE POWERED THROUGH OUTDOOR UNIT.
MSFC	7A	WALL COIL	SAMSUNG	-	400 CFM		12,000 Btu/h	12,000 Btu/h	208 V	1	INDOOR UNIT SHALL BE POWERED THROUGH OUTDOOR UNIT.
MSFC	7B	WALL COIL	SAMSUNG	-	400 CFM		12,000 Btu/h	12,000 Btu/h	208 V	1	INDOOR UNIT SHALL BE POWERED THROUGH OUTDOOR UNIT.

1. PROVIDE UNITS 1, 7A, AND 7B WITH CONDENSATE PUMP EQUAL TO LITTLE GIANT.

HVAC -- MINI SPLIT HEAT PUMP SCHEDULE

DESIGNATION					ELECTRICAL DATA			
TYPE	MARK	DESCRIPTION	MANUFACTURER	MODEL	VOLTAGE	PHASE	MCA	MOCP
MSHP	1	MINI-SPLIT HEAT PUMP	SAMSUNG	AC048BXADCH	208 V	1	32.8 A	40.0 A
MSHP	2	MINI-SPLIT HEAT PUMP	SAMSUNG	AC048BXADCH	208 V	1	32.8 A	40.0 A
MSHP	3	MINI-SPLIT HEAT PUMP	SAMSUNG	AC048BXADCH	208 V	1	32.8 A	40.0 A
MSHP	4	MINI-SPLIT HEAT PUMP	SAMSUNG	AC048BXADCH	208 V	1	32.8 A	40.0 A
MSHP	5	MINI-SPLIT HEAT PUMP	SAMSUNG	AC048BXADCH	208 V	1	32.8 A	40.0 A
MSHP	6	MINI-SPLIT HEAT PUMP	SAMSUNG	AC048BXADCH	208 V	1	32.8 A	40.0 A
MSHP	7	MULTI-SPLIT HEAT PUMP	SAMSUNG	AJ024BXJ3CH	208 V	1	19.5 A	25.0 A

1. PROVIDE WITH LOW AMBIENT COOLING, HARD-START KIT, HAIL GUARDS, AND LOCAL DISCONNECT.
2. INDOOR AND OUTDOOR UNITS SHALL BE PROVIDED FROM SAME MANUFACTURER. APPROVED ALTERNATE MANUFACTURERS SHALL BE DAIKIN AND LG.
3. UNITS SHALL BE SELECTED AT AMBIENT CONDITIONS OF: 100 F DB AND 77 F WB.
4. UNITS SHALL MEET CURRENT ENERGY CODE MINIMUM EFFICIENCY REQUIREMENTS.

HVAC -- EXHAUST FAN SCHEDULE

DESIGNATION						ELECTRIC MOTOR DATA				
TYPE	MARK	MANUFACTURER	MODEL	EXHAUST	EXTERNAL STATIC	VOLTAGE	PHASE	FLA	DRIVE	REMARKS
EF	1	COOK	GC	300 CFM	0.25 in-wg	120 V	1	1.7 A	DIRECT	INTERLOCK WITH LIGHTS IN ASSOCIATED ROOM.
EF	2	COOK	GC	300 CFM	0.25 in-wg	120 V	1	1.7 A	DIRECT	INTERLOCK WITH LIGHTS IN ASSOCIATED ROOM.
EF	3	COOK	GC	300 CFM	0.25 in-wg	120 V	1	1.7 A	DIRECT	INTERLOCK WITH LIGHTS IN ASSOCIATED ROOM.

1. PROVIDE WITH SOLID STATE SPEED CONTROLLER, DISCHARGE BACKDRAFT DAMPER, ISOLATOR KIT, DISCONNECT SWITCH.
2. PROVIDE WITH MANUFACTURER'S METAL GRILLE OPTION.
3. EXHAUST FAN SHALL BE SUPPORTED BY STRUCTURE BY MEANS OF ALL THREAD RODS AND MANUFACTURER'S MOUNTING BRACKETS.
4. EXHAUST FAN SHALL BE INTERLOCKED WITH LIGHTS IN ASSOCIATED ROOM.
5. APPROVED ALTERNATE MANUFACTURERS SHALL BE GREENHECK AND TWIN CITY.

HVAC -- AIR TERMINAL SCHEDULE

					INLET SIZE			FACE SIZE		MAX. NOISE CRITERIA	OPTIONS				
MARK	MANUFACTURER	MODEL	DESCRIPTION	MAX AIRFLOW	DIAMETER	WIDTH	LENGTH	W	L		FACE STYLE	FINISH	DAMPER STYLE	MATERIAL	MOUNTING
A	TITUS	TMRA-20-26-B	Adjustable Round Ceiling Diffuser	3,060 CFM	20					25	ROUND CEILING DIFFUSER	WHITE	ADJUSTABLE 4 CONE	ALUMINUM	SURFACE MOUNT
C	TITUS	OMNI AA-08-1-24x24-26	ALUMINUM SQUARE PLAQUE DIFFUSER	350 CFM	8			24"	24"	25	PLAQUE	WHITE	OPPOSED BLADE	ALUMINUM	LAY-IN CEILING
R11	TITUS	TBR	4-SLOT; 1.5" SLOTS; SLOT RETURN	300 CFM		13"	5"	8"	60"	0	DOUBLE DEFLECTION BLADES	WHITE	OPPOSED BLADE	ALUMINUM	SURFACE MOUNT
Z	TITUS	TBD-80	4-SLOT; 1" SLOTS; PLENUM SLOT DIFFUSER	300 CFM		13"	5"	8"	60"	0	DOUBLE DEFLECTION BLADES	WHITE	OPPOSED BLADE	ALUMINUM	SURFACE MOUNT

1. PROVIDE WITH MANUFACTURER'S MOUNTING SYSTEM FOR CEILING TYPE ON WHICH DEVICE IS MOUNTED.
2. PROVIDE ALL LAY-IN RETURN GRILLES WITH ROUND NECK ADAPTOR WHERE APPLICABLE.
3. COLOR OPTION SHALL BE INCLUDED IN BID PRICE UNLESS SPECIFICALLY NOTED AS "WHITE" IN SCHEDULE. SUBMIT MANUFACTURER'S COLOR OPTIONS TO ARCHITECT FOR FINAL APPROVAL BEFORE ORDERING DEVICES.
4. APPROVED ALTERNATE MANUFACTURERS SHALL BE KRUEGER AND PRICE.

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PLUMBING LEGEND

ABBREVIATION OR SYMBOL	DESCRIPTION
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWC	DOMESTIC HOT WATER RETURN
SS	SANITARY SEWER
GW	SANITARY - GREASE WASTE
AW	SANITARY - ACID WASTE
SD	STORM DRAIN
V	VENT
G	NATURAL GAS
CD	CONDENSATE DRAIN

VALVING

BFV BFV	BUTTERFLY VALVE (lever operator)
BFV BFV	BUTTERFLY VALVE (wheel operator)
GV GV	GATE VALVE
CHK CHK	CHECK VALVE
GB GB	GLOBE VALVE
ST ST	STRAINER (Y-TYPE)
BV BV	BALL VALVE

* NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT

ABBREVIATION OR SYMBOL	DESCRIPTION
	FLEXIBLE PIPING
	EXISTING PIPING TO REMAIN (refer to line designation)
	EXISTING TO BE REMOVED (back to point indicated)
	CONNECT TO EXISTING
	BELOW GRADE PIPING (fine dash)

THREADED WATER & GAS PIPING

	PIPE DOWN
	PIPE UP
	THREADED TEE DOWN
	THREADED TEE UP
	BRANCH - BOTTOM OF PIPE
	BRANCH - TOP OF PIPE
	90 DEGREE ELBOW
	45 DEGREE ELBOW
	TEE
	UNION

ABBREVIATION OR SYMBOL	DESCRIPTION
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
FFE	FINISH FLOOR ELEVATION
VTR	VENT THROUGH ROOF
VTW	VENT THROUGH WALL
	PIPE PENETRATION (through floor/wall/etc)
	DCW ROUGH-IN
	DHW ROUGH-IN

LONG RADIUS SEWER & VENT PIPING

	PIPE DOWN
	PIPE UP
	PIPE WYE DOWN
	PIPE WYE UP
	BRANCH - BOTTOM OF PIPE
	BRANCH - TOP OF PIPE
	ELBOW
	45 DEGREE ELBOW
	WYE WITH EIGHTH BEND
	UNION

PLUMBING GENERAL NOTES:

1. ALL PLUMBING WORK SHALL COMPLY WITH ALL LOCAL CODES, AUTHORITIES HAVING JURISDICTION, DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES ARE FOUND - THE MOST STRINGENT REQUIREMENT SHALL GOVERN WORK.
2. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRIC RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING, OR COMPONENT. CONTRACTOR SHALL NOT SCALE DRAWINGS. EQUIPMENT SCHEDULES SHALL TAKE PRECEDENCE OVER CONFLICTING DRAWING INFORMATION. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO COMPLETE PROJECT DOCUMENTS FOR COORDINATION WITH OTHER DISCIPLINES.
3. EXCEPT WHERE MODIFIED BY SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ITEM IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO PROVIDE THE ITEM, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED AS PART OF THE INDICATION OR DESCRIPTION.
4. REFER TO PLUMBING SCHEDULES AND SPECIFICATIONS FOR BASIS OF DESIGN, ACCEPTABLE MANUFACTURERS, AND MODELS OF PLUMBING FIXTURES AND EQUIPMENT.
5. PROVIDE CLEANOUTS IN ALL SANITARY LINES, WHETHER SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 100' AND AT EACH CHANGE IN DIRECTION GREATER THAN 45 DEGREES.
6. PROVIDE A TWO-WAY CLEANOUT AT THE JUNCTION OF ALL BUILDING DRAINS AND BUILDING SEWERS.
7. REFER TO SPECIFICATIONS FOR INSULATION REQUIREMENTS.
8. ALL SANITARY LINES 2 1/2" AND SMALLER SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT. ALL SANITARY LINES 3" AND LARGER SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT. VERIFY EXISTING SANITARY LINE ELEVATIONS AND COORDINATE INSTALLATION TO ASSURE PROPER FLOW.
9. SEAL ALL PIPE PENETRATIONS THROUGH WALLS, ROOF, AND FLOOR AIR AND WATER TIGHT.
10. ALL FLOOR DRAINS SHALL HAVE DEEP SEAL TRAPS, 4" DEEP SEAL MINIMUM UNLESS NOTED OTHERWISE. PROVIDE A TRAP GUARD EQUAL TO PROSET OR SURE SEAL SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS FOR ALL FLOOR DRAINS.
11. ALL PIPE DROPS FROM CEILING PLENUM TO BELOW FLOOR SHALL BE MADE IN FURR-OUTS AT COLUMNS, IN WEBB OF BEAMS AT COLUMNS, OR IN WALLS UNLESS SHOWN OTHERWISE.
12. ALL EXPOSED OR ACCESSIBLE P-TRAPS SHALL BE CHROME PLATED AND PROVIDED WITH BOTTOM CLEANOUT PLUGS. ALL EXPOSED PLUMBING TRIM SHALL BE CHROME PLATED.
13. PROVIDE TIGHT-FITTED MOLDED PLASTIC INSULATION AT ALL EXPOSED WATER AND DRAIN PIPING FOR ADA FIXTURES PER ANSI A117.1 AND ADA REQUIREMENTS. FINISH SHALL BE WHITE.
14. ALL DOMESTIC WATER SHALL BE ROUTED ABOVE CEILING. ALL DOMESTIC WATER ROUTED IN EXTERIOR WALLS SHALL BE INSTALLED ON CONDITIONED SIDE OF ROOM INSULATION.
15. MAINTAIN A MINIMUM OF 15' BETWEEN ALL HVAC FRESH AIR INTAKES AND PLUMBING VENTS. COORDINATE WITH MECHANICAL BEFORE INSTALLATION OF VTRs.
16. CONTRACTOR SHALL VISIT SITE AND VERIFY CONDITIONS PRIOR TO BIDDING.
17. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF UTILITIES AND INVERTS PRIOR TO ROUTING SERVICES. CONTRACTOR SHALL COORDINATE ALL SANITARY SEWER, FIRE, GAS AND DOMESTIC WATER LINES WITH EXISTING UTILITIES AND WITH CIVIL DRAWINGS. SEE CIVIL DRAWINGS FOR CONTINUATION OF ALL UTILITY LINES.
18. CONTRACTOR SHALL PAY ALL UTILITY FEES AND CHARGES IN THE CONTRACT.
19. PROVIDE ALL FITTINGS, TRANSITIONS, COUPLINGS, ADAPTORS, UNIONS, AND OTHER ACCESSORIES NEEDED TO COMPLETE CONNECTIONS AND PROVIDE FOR PROPER OPERATION OF PLUMBING FIXTURES AND PLUMBING EQUIPMENT.
20. FIRE STOP ALL PIPE PENETRATIONS THROUGH RATED WALLS. REFER TO SPECIFICATIONS.
21. PIPING SHALL NOT BE ROUTED OVER ELECTRICAL ROOMS, COMPUTER ROOMS, ELECTRICAL PANELS, OR ELECTRICAL EQUIPMENT UNLESS OTHERWISE NOTED.
22. PROVIDE LEAD-FREE PRESSURE REDUCING VALVE AT DOMESTIC ENTRANCE TO PROVIDE ADEQUATE PRESSURE AT ALL OUTLETS IN ACCORDANCE WITH THE SYSTEM REQUIREMENTS.
23. EACH FIXTURE GROUP OR BATTERY OF FIXTURES SHALL BE PROVIDED WITH A SHUTOFF VALVE IN THE DOMESTIC HOT AND COLD WATER SUPPLY LINES ABOVE CEILING. VALVES SHALL BE ACCESSIBLE FROM ROOM BELOW.
24. PAINT EXPOSED PIPING AND PIPE INSULATION. COORDINATE WITH OWNER FOR FINAL COLOR.
25. ALL UNDER FLOOR WATER PIPING SHALL BE PROVIDED WITH A POLYETHYLENE SLEEVE. EXTEND SLEEVE UP THROUGH FLOOR SLAB AND SEAL AIR AND WATER TIGHT.
26. PLASTIC PIPE IS PROHIBITED IN RETURN AIR PLENUMS. ALL PIPING AND PIPE CONNECTIONS IN RETURN AIR PLENUMS SHALL BE PLENUM RATED.
27. PIPING THROUGH FOUNDATION WALLS AND FOOTINGS SHALL BE SLEEVED AS PER STRUCTURAL DETAILS.
28. ALL PIPE CONNECTIONS BETWEEN DISSIMILAR METALS SHALL BE MADE THROUGH DIELECTRIC UNIONS.
29. ALL PLUMBING COMPONENTS WITH ELECTRICAL REQUIREMENTS SHALL BE INSTALLED WITH THE ELECTRICAL INFRASTRUCTURE NECESSARY TO PROVIDE A FULLY FUNCTIONING SYSTEM. IF NOT SPECIFICALLY SHOWN ON ELECTRICAL SCHEDULE, PLUMBING FIXTURES REQUIRING ELECTRICAL SERVICE SHALL BE FED FROM BREAKER OF ADEQUATE CAPACITY.
30. REFER TO PLUMBING SPECIFICATIONS FOR PIPE MATERIAL AND INSULATION REQUIREMENTS.
31. EXACT LOCATION OF ALL EQUIPMENT AND PIPING SHALL BE COORDINATED WITH OTHER TRADES. CEILING MOUNTED SPRINKLER AND LIGHTING SHALL TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS.
32. PROVIDE FABRICATED EXPANSION LOOP OR MANUFACTURED EXPANSION DEVICE ON ALL PIPING SYSTEMS CROSSING BUILDING EXPANSION JOINTS.
33. WATER SUPPLY CONNECTIONS TO COFFEE MACHINES AND NONCARBONATED BEVERAGE DISPENSERS SHALL BE PROVIDED WITH A BACKFLOW PREVENTER OR AN AIR GAP.

PLUMBING -- FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	ACCESSORIES	FAUCETS & FITTINGS	STOPS	TRAPS	MOUNTING	BRANCH CONNECTIONS DCW	BRANCH CONNECTIONS DHW	BRANCH CONNECTIONS SS	REMARKS
DCOTG	CLEAN OUT TO GRADE	ZURN	Z1400	-	-	-	-	AT GRADE			4"	SHALL BE PROVIDED WITH HEAVY DUTY TOP.
FCO	FLOOR CLEANOUT	ZURN	ZN1400	-	-	-	-	FLOOR			4"	MATCH SIZE TO SANITARY LINE SERVED.
P1A	WATER CLOSET - FLUSH TANK - ADA	AMERICAN STANDARD	CADET	ELONGATED SEAT	-	MCGUIRE COMMERCIAL	INTEGRAL	FLOOR	1/2"		4"	
P1B	WATER CLOSET - FLUSH TANK	AMERICAN STANDARD	CADET	SEAT	-	MCGUIRE COMMERCIAL	INTEGRAL	FLOOR	1/2"		4"	
P2	URINAL	AMERICAN STANDARD	DECORUM	-	6045.013.002 FLUSH VALVE	INTEGRAL	INTEGRAL	WALL	3/4"		2"	
P3	UNDERMOUNT LAVATORY	KOHLER	VERTICYL 8981	GRID DRAIN	T&S B-2866-04	MCGUIRE COMMERCIAL	MCGUIRE COMMERCIAL	UNDERMOUNT	1/2"	1/2"	2"	
P4	ADA WALL MOUNT LAVATORY	AMERICAN STANDARD	DECORUM	GRID DRAIN; WALL CARRIER	T&S B-2866-04	MCGUIRE COMMERCIAL	MCGUIRE COMMERCIAL	WALL	1/2"		2"	
P5	MOP SINK - CORNER	STERN WILLIAMS	ELFIN SQUARE EB-54	MOP HANGER; HOSE AND HOSE BRACKET; 24" STAINLESS STEEL SPLASH GUARD; GRID DRAIN	T-10-VB SERVICE FAUCET	INTEGRAL	SCH. 40 PVC	FLOOR	1/2"	1/2"	3"	
P6	KITCHEN SINK - DOUBLE COMPARTMENT	JUST MFG.	UDADA1832A55-J	BADGER 5XP GARBAGE DISPOSAL	J-902 (FAUCET W/SPRAYER)	MCGUIRE COMMERCIAL	MCGUIRE COMMERCIAL	UNDERMOUNT	1/2"	1/2"	2"	
WB	MINI-ICE MAKER WALL BOX - STAINLESS	GUY GRAY	SSMIB1AB	-	1/4 TURN VALVE	-	-	WALL	1/2"			
WCO	WALL CLEANOUT	ZURN	Z1441	-	-	-	-	WALL			4"	MATCH SIZE TO SANITARY BRANCH SERVED.

1 ALL FIXTURES SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION.
2 CONTRACTOR IS RESPONSIBLE FOR COORDINATING FAUCET SPACING AND STYLE WITH MOUNTING HOLES IN FIXTURE.
3 ALL FIXTURES WITH HOT WATER FEEDS SHALL BE PROVIDED WITH THERMOSTATIC MIXING VALVE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION.
4 CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES IN COMPLIANCE WITH ALL APPLICABLE CODES AND ALL AUTHORITIES HAVING JURISDICTION.
5 PROVIDE WHITE ADA WRAP ON P-TRAP AND STOPS FOR ALL ADA LAVATORY FIXTURES.

PLUMBING -- EQUIPMENT SCHEDULE

TAG	MARK	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	TANK VOLUME	BRANCH CONNECTIONS DCW	BRANCH CONNECTIONS DHW	DESIGN EWT	WH SETPOINT	ELECTRICAL DATA VOLTAGE (V)	ELECTRICAL DATA PHASE	ELECTRICAL DATA WATTAGE	REMARKS
WH	1	LOW PROFILE ELECTRIC WATER HEATER	A.O. SMITH	EJCS	SUSPENDED	10 gal	3/4"	3/4"	55.0 °F	110.0 °F	120 V	1	2.0 kW	MOUNT BELOW COUNTER. PROVIDE WITH DRAIN PAN AND T&P VALVE ROUTED TO EXTERIOR.
WH	2	LOW PROFILE ELECTRIC WATER HEATER	A.O. SMITH	EJCS	SUSPENDED	10 gal	3/4"	3/4"	55.0 °F	110.0 °F	120 V	1	2.0 kW	MOUNT BELOW COUNTER. PROVIDE WITH DRAIN PAN AND T&P VALVE ROUTED TO EXTERIOR.

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PLUMBING NOTES, SCHEDULES, AND LEGENDS

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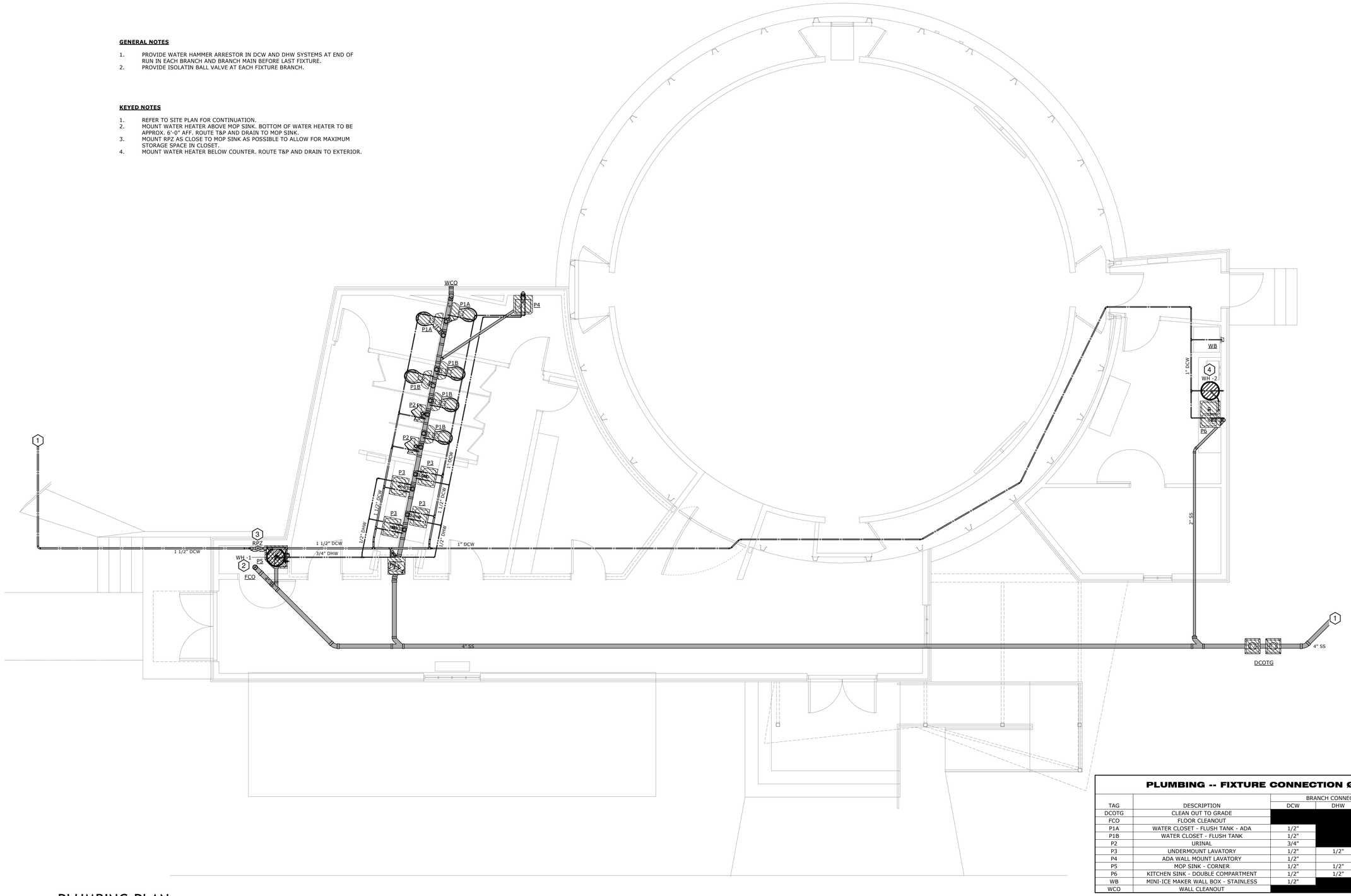
GENERAL NOTES

1. PROVIDE WATER HAMMER ARRESTOR IN DCW AND DHW SYSTEMS AT END OF RUN IN EACH BRANCH AND BRANCH MAIN BEFORE LAST FIXTURE.
2. PROVIDE ISOLATIN BALL VALVE AT EACH FIXTURE BRANCH.

KEYED NOTES

1. REFER TO SITE PLAN FOR CONTINUATION.
2. MOUNT WATER HEATER ABOVE MOP SINK. BOTTOM OF WATER HEATER TO BE APPROX. 6'-0" AFF. ROUTE T&P AND DRAIN TO MOP SINK.
3. MOUNT RPZ AS CLOSE TO MOP SINK AS POSSIBLE TO ALLOW FOR MAXIMUM STORAGE SPACE IN CLOSET.
4. MOUNT WATER HEATER BELOW COUNTER. ROUTE T&P AND DRAIN TO EXTERIOR.



PLUMBING -- FIXTURE CONNECTION Ø

TAG	DESCRIPTION	BRANCH CONNECTIONS DCW	DHW	SS
DCOTG	CLEAN OUT TO GRADE			4"
FCO	FLOOR CLEANOUT			4"
P1A	WATER CLOSET - FLUSH TANK - ADA	1/2"		4"
P1B	WATER CLOSET - FLUSH TANK	1/2"		4"
P2	URINAL	3/4"		2"
P3	UNDERMOUNT LAVATORY	1/2"	1/2"	2"
P4	ADA WALL MOUNT LAVATORY	1/2"		2"
P5	MOP SINK - CORNER	1/2"	1/2"	3"
P6	KITCHEN SINK - DOUBLE COMPARTMENT	1/2"	1/2"	2"
WB	MINI-ICE MAKER WALL BOX - STAINLESS	1/2"		
WCO	WALL CLEANOUT			4"

1 PLUMBING PLAN

1/4" = 1'-0"

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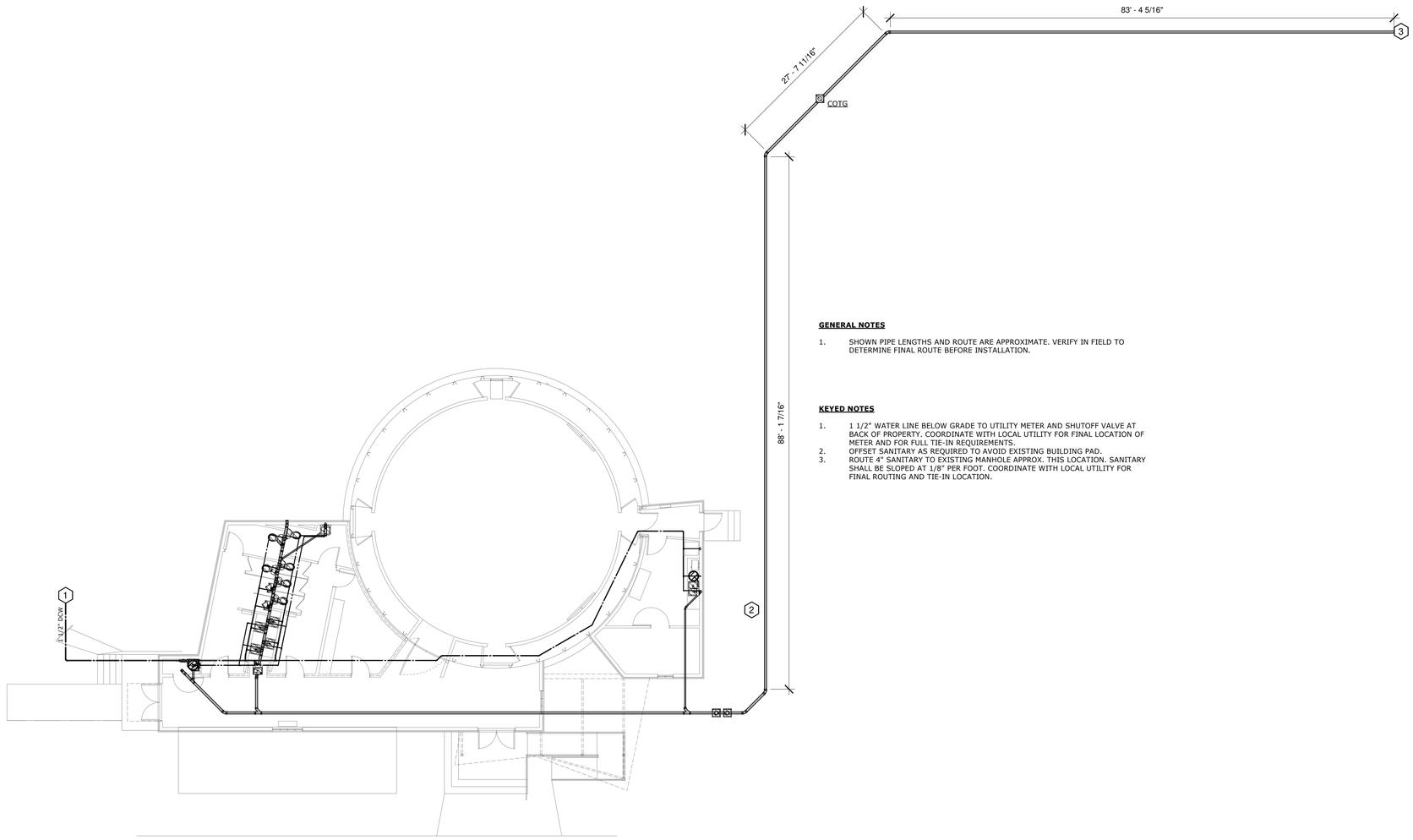
TYRONZA, ARKANSAS 72386

SHEET CONTENTS:
PLUMBING PLAN

ISSUE DATE
March 1, 2024

REVISIONS
1 RE-BID
April 19, 2024

SHEET NO.
P1.1



GENERAL NOTES

1. SHOWN PIPE LENGTHS AND ROUTE ARE APPROXIMATE. VERIFY IN FIELD TO DETERMINE FINAL ROUTE BEFORE INSTALLATION.

KEYED NOTES

1. 1 1/2" WATER LINE BELOW GRADE TO UTILITY METER AND SHUTOFF VALVE AT BACK OF PROPERTY. COORDINATE WITH LOCAL UTILITY FOR FINAL LOCATION OF METER AND FOR FULL TIE-IN REQUIREMENTS.
2. OFFSET SANITARY AS REQUIRED TO AVOID EXISTING BUILDING PAD.
3. ROUTE 4" SANITARY TO EXISTING MANHOLE APPROX. THIS LOCATION. SANITARY SHALL BE SLOPED AT 1/8" PER FOOT. COORDINATE WITH LOCAL UTILITY FOR FINAL ROUTING AND TIE-IN LOCATION.

1 PLUMBING SITE PLAN

1" = 10'-0"

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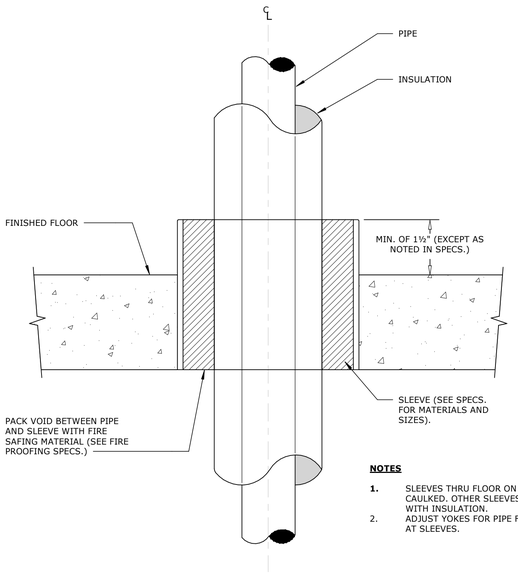


NOTES:

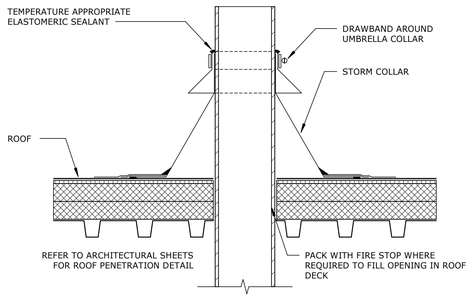
1. SLEEVES THRU FLOOR ON GRADE SHALL BE CAULKED. OTHER SLEEVES SHALL BE FILLED WITH INSULATION.
2. ADJUST YOKES FOR PIPE FLOOR SUPPORT TO FIT AT SLEEVES.

1 PIPE SLEEVE THROUGH FLOOR

NOT TO SCALE

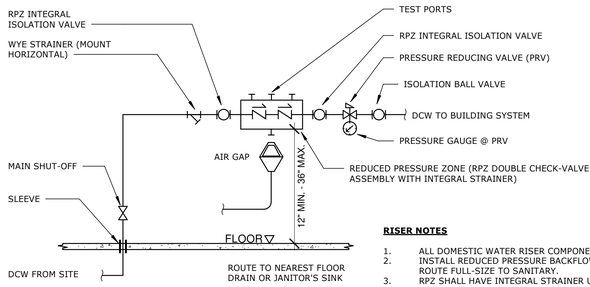
NOTES:

1. VENT ABOVE ROOF SHALL BE PAINTED TO MATCH ROOF. COORDINATE WITH ARCHITECT.
2. IF ARCHITECTURAL PIPE PENETRATION DETAIL IS AVAILABLE, IT SHALL SUPERCEDE THIS DETAIL.



2 VENT THROUGH ROOF

NOT TO SCALE



RPZ SIZE	MAKE	MODEL
1/4" - 2"	WATTS	LF009M2QT
2 1/2" - 3"	WATTS	LF009QTSFDA
4" - 10"	WATTS	LF909OSYSFDA

RISER NOTES

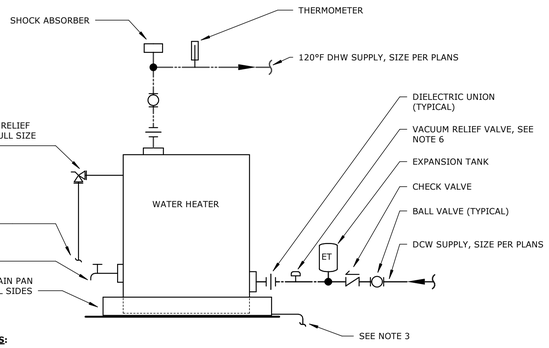
1. ALL DOMESTIC WATER RISER COMPONENTS SHALL BE LEAD-FREE.
2. INSTALL REDUCED PRESSURE BACKFLOW PREVENTER WITH MANUFACTURER'S AIR GAP AND ROUTE FULL-SIZE TO SANITARY.
3. RPZ SHALL HAVE INTEGRAL STRAINER UNLESS SPATIAL CONSTRAINTS REQUIRE STRAINER TO BE INSTALLED SEPARATELY.
4. INSTALL PIPE STANDS TO SUPPORT THE COMPONENTS. DO NOT SUPPORT ASSEMBLIES FROM PIPING. INSTALL BEARING PLATES ON CONCRETE FLOOR UNDER EACH SUPPORT.
5. COORDINATE FINAL LOCATION OF DOMESTIC RISER WITH ALL OTHER SYSTEMS AND EQUIPMENT IN ASSOCIATED ROOM. RISER SHALL NOT INTERFERE WITH OR IMPEDE OPERATIONS OF OTHER SYSTEMS OR FACILITY PERSONNEL.
6. INSTALL ALL VALVES SO THAT VALVE HANDLES ARE NOT IMPEDED IN ANY MANNER AND ARE EASILY OPERATED FROM INTERIOR OF ROOM.

PRV NOTES

1. IF INCOMING PRESSURE IS 70PSI OR GREATER, PROVIDE PRV EQUAL TO WATTS LF223 FOR 2 1/2" AND BELOW. PRV SHALL BE EQUAL TO WATTS LFN223B FOR 3".
2. SIZE PRV PER PLANS OR MATCH RPZ SIZE, DO NOT SIZE BASED ON DISTRIBUTION PIPE SIZE.
3. ENGINEER SHALL BE INFORMED IF INCOMING PRESSURE AT BUILDING IS 150PSI OR GREATER.

3 RPZ DOMESTIC WATER RISER

NOT TO SCALE

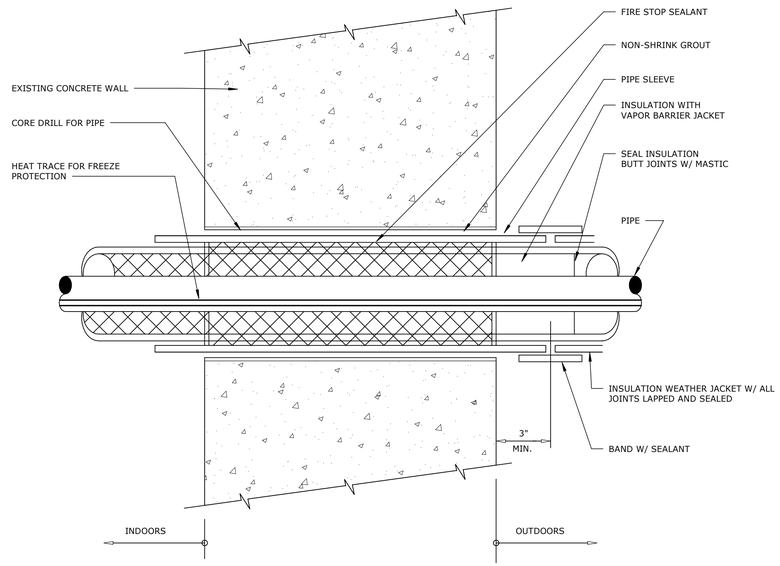


NOTES:

1. PROVIDE THERMAL EXPANSION TANK ON COLD WATER INLET. SIZE PER MANUFACTURER'S RECOMMENDATION.
2. T & P RELIEF VALVE SHALL DISCHARGE FULL SIZE TO SANITARY. T&P DISCHARGE SHALL NOT CAUSE A THREAT TO OR INTERFERE WITH FACILITY OPERATIONS, FACILITY ITSELF, EQUIPMENT OR PERSONNEL. THE DISCHARGE PIPE SHALL NOT HAVE ANY TRAPPED SECTIONS.
3. PAN DRAIN SHALL EXTEND FULL SIZE TO SANITARY.
4. T & P RELIEF VALVE AND DRAIN PAN DISCHARGE SHALL CONFORM TO ALL LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
5. FOR SUSPENDED WATER HEATERS, PROVIDE PRE-MANUFACTURED PLATFORM EQUAL TO 'HOLD-RITE'. PLATFORM SHALL BE RATED FOR FULL WEIGHT OF WATER HEATER AND ACCESSORIES WHEN FILLED. PROVIDE SECONDARY SEISMIC STRAP AROUND WATER HEATER AND SECURED TO STRUCTURE.
6. PROVIDE BOTTOM FED WATER HEATERS WITH VACUUM RELIEF VALVE WHICH MEETS ANSI Z21.22.

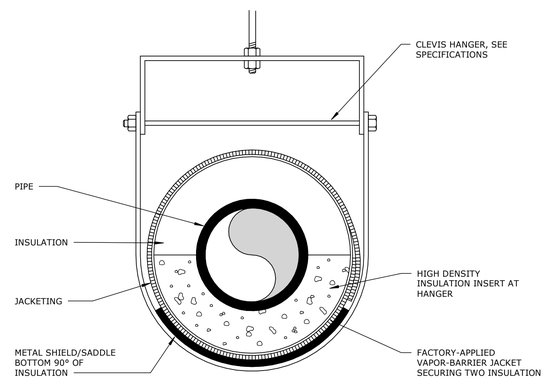
4 WATER HEATER - SINGLE TEMP.

NOT TO SCALE



5 PIPE PENETRATION - WALL

NOT TO SCALE



NOTES:

1. SEE SPECIFICATIONS FOR INSULATION, JACKET, AND HANGER REQUIREMENTS.

6 PIPE INSULATION AT CLEVIS HANGER

NOT TO SCALE

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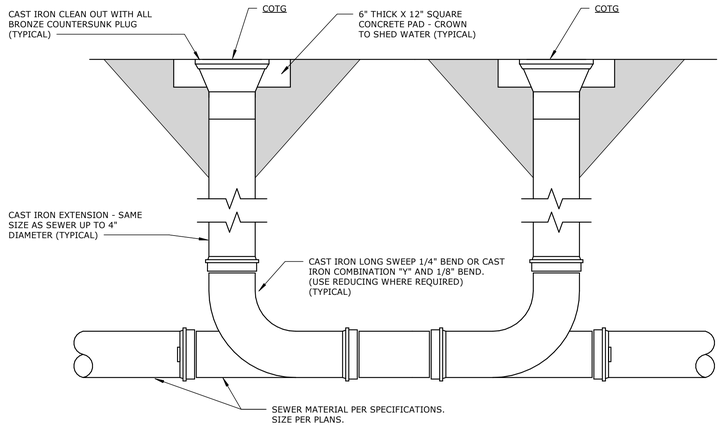
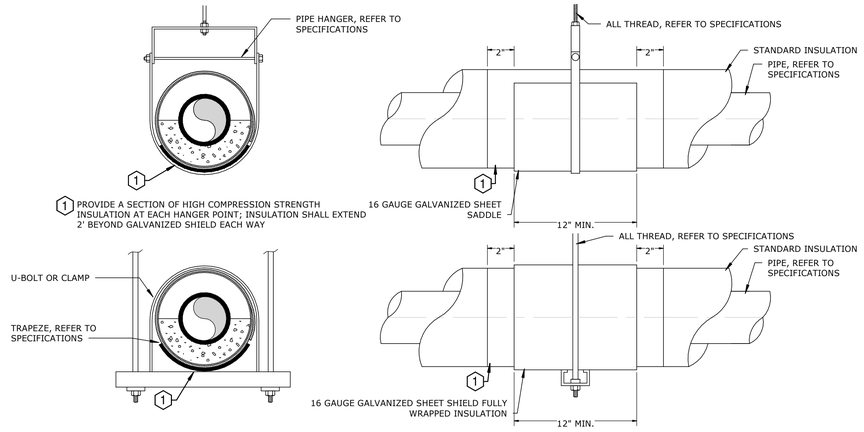
GENERAL NOTE: WHERE POSSIBLE, OFFSET COTG FITTINGS AWAY FROM BUILDING PERIMETER TO AVOID SIDEWALKS. ALL DCOTG LOCATIONS SHALL BE ACCESSIBLE FOR USE.



1 DOUBLE CLEANOUT TO GRADE

NOT TO SCALE



2 INSULATED PIPE HANGER

NOT TO SCALE

HAMMER ARRESTOR SCHEDULE

SUPPLY BRANCH SIZE	PDI HAMMER ARRESTOR SIZE	FIXTURE UNITS
1/2" - 1"	A	1-11
1-1/4"	B	12-32
1-1/2"	C	33-60
2"	D	61-113
2-1/2"	E	114-154
3"	F	155-330

COMMON PUBLIC FIXTURE GROUPS

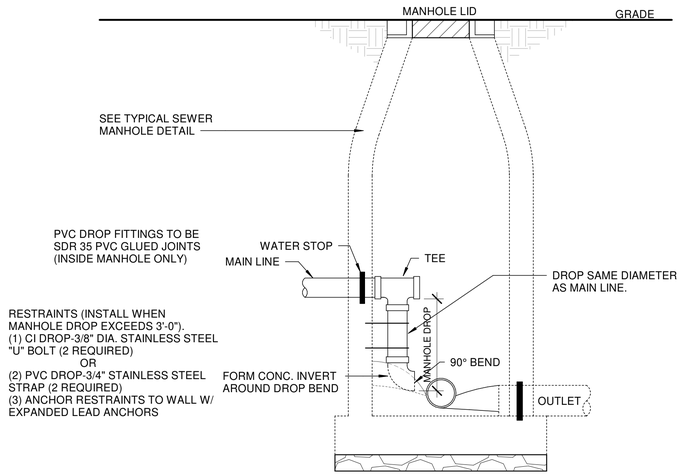
PLUMBING GROUP FIXTURES	C.W.F.U. FLUSH TANK	C.W.F.U. FLUSH VALVE
1 TLT, 1 LAV	6.5	11.5
2 TLT, 2 LAV	13.5	23
1 TLT, 1 UR, 1 LAV	13	18
3 TLT, 3 LAV	19.5	34.5
2 TLT, 1 UR, 3 LAV	19.5	29.5
4 TLT, 4 LAV	26	46

NOTES:

1. ALL BATHROOM GROUPS SHALL INCLUDE A MINIMUM OF ONE DCW ARRESTOR AND ONE DHW ARRESTOR SIZED PER HAMMER ARRESTOR SCHEDULE. ADDITIONAL ARRESTORS SHALL BE INSTALLED WHERE INDICATED.
2. ARRESTORS SHALL BE P.D.I.-WH201 APPROVED AND CERTIFIED.
3. ARRESTORS SHALL HAVE WROUGHT COPPER SHELL WITH THREADED CONNECTIONS AND HYDRO-PNEUMATIC AIR CUSHION.
4. PROVIDE ACCESS TO ARRESTORS.
5. FURNISH AND INSTALL WITH ISOLATION VALVES INDEPENDENT OF ASSEMBLY.

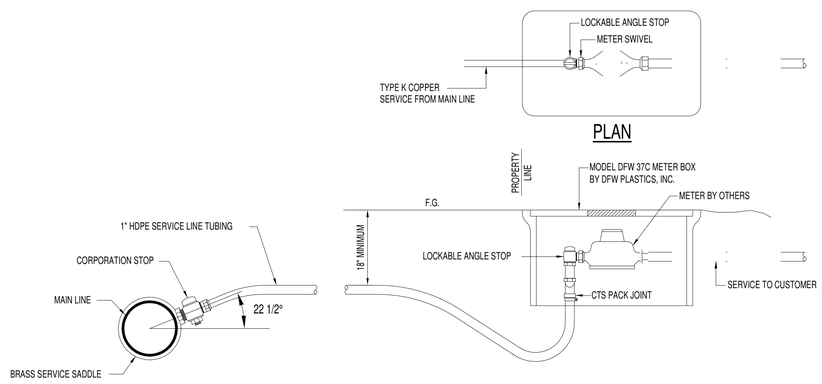
3 WATER HAMMER ARRESTOR SCHEDULE

NOT TO SCALE



4 SEWER DROP MANHOLE

NOT TO SCALE



5 WATER UTILITY CONNECTION

NOT TO SCALE

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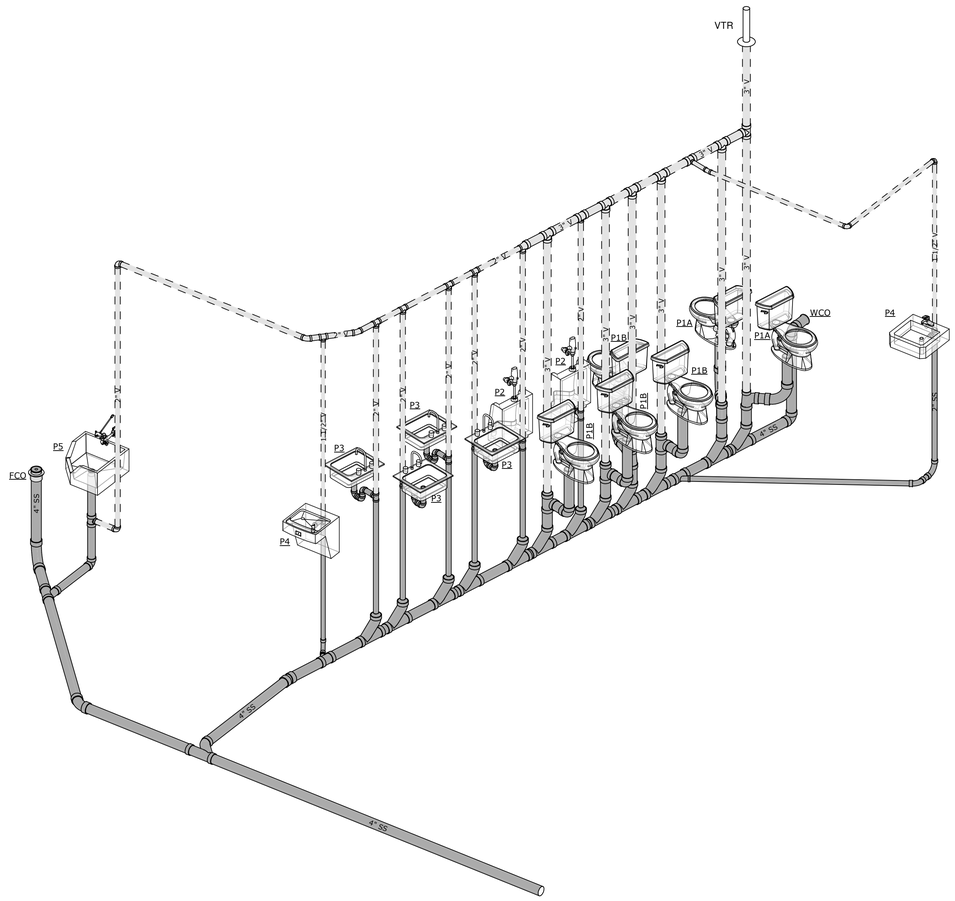
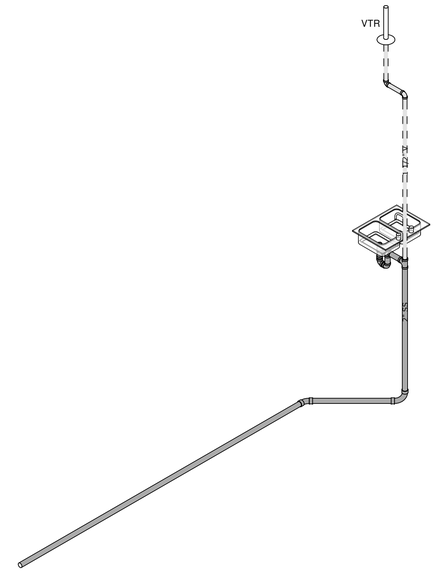


1 MAIN RESTROOM SANITARY WASTE AND VENT RISER



2 KITCHENETTE SANITARY WASTE AND VENT RISER

SANITARY RISER GENERAL NOTES

1. SANITARY RISERS ARE DIAGRAMMATIC. RISERS INDICATE GENERAL PIPE ROUTES AND SIZES FOR SYSTEM. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS TO PROVIDE A FULLY FUNCTIONING SYSTEM.
2. SOME P-TRAPS FOR FIXTURES ARE NOT SHOWN FOR CLARITY OF RISER. ALL PLUMBING FIXTURES WITH SANITARY CONNECTIONS SHALL BE PROVIDED WITH EITHER INTEGRAL OR ANCILLARY P-TRAPS.
3. CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.
4. CLOSELY COORDINATE ALL VTR ROOF PENETRATIONS WITH ABOVE CEILING DUCTWORK AND STRUCTURE. COORDINATE WITH ARCHITECT FOR FINAL LOCATION.

PLUMBING -- FIXTURE CONNECTION Ø

TAG	DESCRIPTION	BRANCH CONNECTIONS		
		DCW	DHW	SS
DCOTG	CLEAN OUT TO GRADE			4"
FCO	FLOOR CLEANOUT			4"
P1A	WATER CLOSET - FLUSH TANK - ADA	1/2"		4"
P1B	WATER CLOSET - FLUSH TANK	1/2"		4"
P2	URINAL	3/4"		2"
P3	UNDERMOUNT LAVATORY	1/2"	1/2"	2"
P4	ADA WALL MOUNT LAVATORY	1/2"		2"
P5	MOP SINK - CORNER	1/2"	1/2"	3"
P6	KITCHEN SINK - DOUBLE COMPARTMENT	1/2"	1/2"	2"
WB	MINI-ICE MAKER WALL BOX - STAINLESS	1/2"		
WCO	WALL CLEANOUT			4"

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GENERAL NOTES

1) GENERAL:

1A) ENGINEER: REFERENCES ON THE STRUCTURAL DRAWINGS TO 'ENGINEER' MEAN THE STRUCTURAL ENGINEER OF RECORD. OTHER ENTITIES ARE SPECIFICALLY NOTED AS "CONTRACTOR'S ENGINEER", "MECHANICAL ENGINEER", ETC.

1B) UNDERGROUND UTILITIES: LOCATE EXISTING UTILITIES AND NOTIFY ARCHITECT OF EXISTING UTILITIES OR SUBGRADE CONDITIONS WHICH INTERFERE WITH WORK.

1C) STRUCTURAL ELEMENTS ARE CENTERED ON GRID LINES AND GRID LINE INTERSECTIONS UNLESS DIMENSIONED OTHERWISE.

2) EXISTING STRUCTURES:

2A) CONTRACT DOCUMENTS HAVE BEEN PREPARED USING AVAILABLE DRAWINGS AND SITE OBSERVATION AS PERMITTED BY ACCESS RESTRICTIONS DURING DESIGN.

2B) DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS WHICH ARE NOT KNOWN OR ARE AT VARIANCE WITH PROJECT DOCUMENTATION. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL CONDITIONS NOT PER THE CONTRACT DOCUMENTS. EXAMPLES INCLUDE:
- SIZES OR DIMENSIONS OTHER THAN THOSE SHOWN
- DAMAGE OR DETERIORATION TO MATERIALS AND COMPONENTS
- CONDITIONS OF INSTABILITY OR LACK OF SUPPORT
- ITEMS NOTED AS EXISTING ON THE DRAWINGS BUT NOT FOUND IN THE FIELD

2C) PREPARE DIMENSIONAL DRAWINGS OF ALL DISCOVERED ITEMS.

2D) CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STRUCTURAL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS.

2E) CONTRACTOR SHALL MAKE ALLOWANCE FOR THE RESOLUTION OF SUCH DISCOVERIES IN THE CONSTRUCTION SCHEDULE.

3) USE OF DRAWINGS:

3A) DO NOT SCALE DRAWINGS.

3B) DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

3C) DETAILS NOTED TYPICAL APPLY TO ALL SIMILAR CONDITIONS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ELSEWHERE ON THE PROJECT.

3D) WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES AND SPECIFICATIONS:
- CONTACT THE ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION
- THE MORE STRINGENT REQUIREMENTS SHALL GOVERN FOR BIDDING / PRICING

4) TEMPORARY CONDITIONS:

4A) THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. REFER TO "LATERAL LOAD RESISTING SYSTEM DESCRIPTION" IN DESIGN CRITERIA FOR ADDITIONAL INFORMATION.

4B) CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.

4C) FOUNDATION WALLS SHALL NOT BE BACKFILLED UNTIL THE SLABS-ON-GRADE AND UPPER SLABS ARE IN-PLACE AND REACH FULL STRENGTH UNLESS ADEQUATE BRACING IS PROVIDED. USE ONLY HAND OPERATED TOOLS FOR COMPACTION ADJACENT TO FOUNDATION WALLS AND GRADE BEAMS. GRADE BEAMS SHALL BE BACKFILLED EVENLY ON BOTH SIDES.

5) SUBMITTALS AND SUBSTITUTIONS:

5A) SUBMITTALS: REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
- IF THE CONTRACTOR REQUESTS A CHANGE FROM THE STRUCTURAL DRAWINGS, IT SHALL BE APPROVED BY THE ARCHITECT AND DESIGNED BY CONTINUUM ENGINEERING LLC PRIOR TO SUBMITTING SHOP DRAWINGS. VARIATION SHALL BE INDICATED ON THE SHOP DRAWINGS. CONTRACTOR SHALL COMPENSATE CONTINUUM ENGINEERING LLC FOR MAKING THE CHANGE.
- CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED FOR USE IN SUBMITTALS
- ALL SHOP DRAWINGS SHALL REFERENCE THE STRUCTURAL DRAWING NUMBER AND DETAIL USED TO PREPARE THE SUBMITTAL
- SUBMIT A STATEMENT OF RESPONSIBILITY FOR CONSTRUCTION OF THE LATERAL LOAD RESISTING SYSTEM IDENTIFIED IN THE DESIGN CRITERIA IN ACCORDANCE WITH IBC 2015 SECTION 1704

5B) SUBSTITUTIONS: ARCHITECT'S APPROVAL SHALL BE SECURED FOR ALL SUBSTITUTIONS

5C) NONCONFORMANCE: NOTIFY ARCHITECT OF CONDITIONS NOT CONSTRUCTED PER THE CONTRACT DOCUMENTS PRIOR TO PROCEEDING WITH CORRECTIVE WORK. SUBMIT PROPOSED REPAIR TO THE ARCHITECT FOR ACCEPTANCE. CONTRACTOR SHALL COMPENSATE CONTINUUM ENGINEERING LLC FOR DESIGNING THE REPAIR.

5D) ALL SHOP DRAWINGS SHALL BE SUBMITTED IN 24x36, 11x17 AND 8-1/2x11 FORMAT ONLY.

5E) ALL SHOP DRAWINGS SHALL BE SUBMITTED IN ELECTRONIC FORMAT ONLY.

6) OSHA STANDARDS:

6A) THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. NOTHING SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE CONSTRUED AS ELIMINATING THE NEED FOR THE CONTRACTOR TO COMPLY WITH ALL OSHA REQUIREMENTS.

6E) WHERE THE STRUCTURAL DRAWINGS APPEAR TO CONFLICT WITH OSHA REQUIREMENTS, THE STRUCTURAL DRAWINGS REPRESENT FINAL CONDITIONS ONLY. THE CONTRACTOR SHALL ADD ALL ERECTION FRAMING NECESSARY TO COMPLY WITH OSHA.

8) COORDINATION:

8A) STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK.

8B) COORDINATE DIMENSIONS OF ALL OPENINGS, BLOCKOUTS, DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER DISCIPLINES, AND FIELD CONDITIONS PRIOR TO SHOP DRAWING SUBMITTAL.

DESIGN CRITERIA

1) CODES AND STANDARDS:

1A) GENERAL DESIGN
- INTERNATIONAL BUILDING CODE 2021

2) SEISMIC LOADS
- SEISMIC DESIGN CATEGORY = E
- RISK CATEGORY = II
- EARTHQUAKE IMPORTANCE FACTOR, Ie = 1.00
- MAPPED SPECTRAL RESPONSE ACCELERATION, Ss = 2.354 %g
- MAPPED SPECTRAL RESPONSE ACCELERATION, S1 = 0.856 %g
- DESIGN SPECTRAL RESPONSE COEFFICIENT, SDs = 1.569
- DESIGN SPECTRAL RESPONSE COEFFICIENT, SD1 = N/A
- SOIL SITE CLASS = D
- BASIC STRUCTURAL SYSTEM: LOAD BEARING COLD-FORMED STEEL FRAMING
- STRUCTURAL SEISMIC LATERAL SYSTEM: LIGHT FRAME (CFS) WALLS WITH WOOD PANELS
- RESPONSE MODIFICATION FACTOR, R = 6.5
- SEISMIC RESPONSE COEFFICIENT, Cs = 0.030
- SYSTEM OVERSTRENGTH FACTOR, OMEGA = 2.5
- DESIGN BASE SHEAR EAST-WEST DIRECTION = 0.5 K
- DESIGN BASE SHEAR NORTH-SOUTH DIRECTION = 0.5 K
- SEISMIC ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE SIMPLIFIED ANALYSIS

3) WIND LOADS
- RISK CATEGORY = II
- BASIC ULTIMATE WIND SPEED, Vult = 106 MPH
- BASIC NOMINAL WIND SPEED, Vasd = 82 MPH
- EXPOSURE CATEGORY = C
- INTERNAL PRESSURE COEFFICIENT, Gcpi = +/-0.18
- TOPOGRAPHIC FACTOR, Kzt = 1.0

4) LATERAL LOAD RESISTING SYSTEM DESCRIPTION:
- PLYWOOD DIAPHRAGM OVER SHEAR WALLS COMPOSED OF LIGHT FRAME (CFS) AND WOOD PANELS

5) GRAVITY LOADS

5A) DEAD LOAD OF ROOF = 10 PSF

5B) FLOOR LIVE LOAD = 100 PSF

5C) ROOF LIVE LOAD = 20 PSF

5B) DRIFTING, SLIDING AND UNBALANCED SNOW
- GROUND SNOW LOAD = 10.0 PSF
- SNOW EXPOSURE FACTOR, Ce = 1.0
- SNOW LOAD IMPORTANCE FACTOR, Is = 1.0
- THERMAL FACTOR, Ct = 1.00
- FLAT ROOF SNOW LOAD, Pf = 10.0 PSF

FOUNDATION NOTES

MAXIMUM TOTAL LOAD BEARING PRESSURE = 1,500 PSF

PREPARE SOILS TO MEET BEARING PRESSURE

STEEL NOTES

1) STRUCTURAL COLD FORMED METAL FRAMING:

1A) REFER TO SCHEDULE FOR REQUIRED STUD AND JOIST MATERIAL GRADES AND SECTION PROPERTIES. REFER TO DETAILS FOR CONNECTIONS AND OTHER REQUIREMENTS.

1B) LOAD BEARING METAL FRAMING:
- MAXIMUM GAP BETWEEN WALL STUDS AND TRACK SHALL BE 1/8". SHIM AS REQUIRED TO ACHIEVE THIS CRITERIA.
- ALL BRACING, BRIDGING, AND CONNECTIONS SHALL BE COMPLETE PRIOR TO PLACING CONCRETE SLABS OR INSTALLING ROOF FRAMING ABOVE.

WOOD NOTES

1) SHEATHING:

1A) PLYWOOD:
- CONFORM TO U.S. DEPARTMENT OF COMMERCE STANDARD PS 1-10.

CONCRETE NOTES

1) GENERAL:

1A) ALL WORK SHALL CONFORM WITH ACI 301, UNLESS NOTED OTHERWISE IN DRAWINGS OR PROJECT SPECIFICATIONS.

1B) DETAIL BARS IN ACCORDANCE WITH THE DRAWINGS, PROJECT SPECIFICATIONS, AND ACI PUBLICATION SP-66 (2004): "ACI DETAILING MANUAL"

2) REINFORCING MATERIALS:

2A) SEE 'REINFORCING MATERIAL TABLE'

3) REINFORCING FABRICATION:

3A) SPLICES:
- NO SPLICING OF REINFORCEMENT PERMITTED EXCEPT AS NOTED ON DRAWINGS. MAKE BARS CONTINUOUS AROUND CORNERS WHERE DETAIL NOT PROVIDED. WHERE PERMITTED, SPLICES MAY BE MADE BY CONTACT LAPS OR MECHANICAL CONNECTORS.
- SEE 'LAP SPLICE SCHEDULE' FOR LAP LENGTHS.
- SPLICE CONTINUOUS TOP AND BOTTOM BARS IN WALLS, BEAMS, AND GRADE BEAMS 'LTS' UNLESS NOTED OTHERWISE.
- SPLICE TOP BARS AT MIDSPAN AND BOTTOM BARS OVER SUPPORT UNLESS NOTED OTHERWISE.

3B) MISCELLANEOUS REINFORCING REQUIREMENTS:
- PROVIDE ADDITIONAL BARS OR STIRRUPS REQUIRED TO SECURE REINFORCING IN PLACE DURING CONCRETE PLACEMENT.
- MAKE ALL REINFORCING BAR BENDS IN THE FABRICATOR'S SHOP UNLESS NOTED.
- NO WELDING OF REINFORCING PERMITTED UNLESS NOTED ON DRAWINGS. WHERE PERMITTED, PERFORM WELDING IN ACCORDANCE WITH AWS D1.4-2011.
- PROVIDE ADDED REINFORCING TO TRIM ALL OPENINGS, NOTCHES, AND REENTRANT CORNERS AS NOTED IN TYPICAL DETAILS.

4) STRUCTURAL CONCRETE MIX REQUIREMENTS:

4A) SEE 'CONCRETE MIX TABLE'

5) SLAB-ON-GRADE:

5A) VERIFY ALKALINITY OF CONCRETE SURFACE, SLAB VAPOR TRANSMISSION, AND SLAB FLATNESS/LEVELNESS ARE COMPATIBLE WITH FLOORING SYSTEM AND ADHESIVES PRIOR TO INSTALLING FLOORING.

5B) TAKE PRECAUTIONS TO MINIMIZE SLAB CURLING. GRIND SLAB OR USE LEVELING COMPOUND IF FLOOR FLATNESS AND LEVELNESS VALUES ARE NOT ACCEPTABLE TO THE ARCHITECT.

6) NON-SHRINK GROUT:

6A) CONFORM TO ASTM C1107

6B) ACHIEVE 8000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.

7) PLACING REINFORCEMENT:

7A) REINFORCEMENT PROTECTION:
- SEE 'REBAR COVER TABLE'
- SEE ACI 117-10 FOR REINFORCEMENT PLACING TOLERANCES

7B) PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AND WELDED WIRE REINFORCEMENT AT POSITIONS SHOWN ON PLANS. ALL REINFORCING, DOWELS, BOLTS, AND EMBEDDED PLATES SHALL BE SET AND TIED IN PLACE BEFORE THE CONCRETE IS POURED. "STABBING" INTO PREVIOUSLY PLACED CONCRETE IS NOT PERMITTED.

REINFORCING MATERIAL TABLE

REINF ELEMENT	ASTM	Fy (KSI)	Fu (KSI)	COMMENTS
TYP REINFORCING	A615	60	90	-
WELDED & FIELD BENT REINF	A706	60	80	-
WELDED WIRE REINFORCING, SMOOTH	A1064	65	75	-

CONCRETE MIX TABLE

CONC MIX TYPE	INTENDED USE	28 DAY STRENGTH f'c (KSI)	CONC WEIGHT	MAX W/C RATIO, INCLUDING FLY ASH	MAX AGGREGATE SIZE (IN)	TOTAL AIR CONTENT (%)	OTHER REQTS
1	ALL CONCRETE SHOWN IN DRAWINGS	4	NWC	0.5	3/4"	-	-

CONCRETE MIX TABLE NOTES:

PROPORTIONS OF MATERIALS IN CONCRETE MIX SHALL BE ESTABLISHED TO:

- PROVIDE THE MINIMUM COMPRESSIVE STRENGTH AS INDICATED IN THE MIX TABLE. DO NOT EXCEED THE MAXIMUM WATER-CEMENT RATIO NOTED.

- PROVIDE WORKABILITY AND CONSISTENCY TO PERMIT CONCRETE TO BE WORKED READILY INTO FORMS AND AROUND REINFORCEMENT UNDER CONDITIONS OF PLACEMENT TO BE EMPLOYED, WITHOUT SEGREGATION OR EXCESSIVE BLEEDING. CONTRACTOR SHALL SELECT APPROPRIATE SLUMP. USE ADMIXTURES AS REQUIRED TO OBTAIN DESIRED RESULTS.

USE TYPE I / II PORTLAND CEMENT

DEFERRED SUBMITTAL NOTES

1) GENERAL:

1A) THE FOLLOWING PORTIONS OF THE STRUCTURAL DESIGN WILL NOT BE SUBMITTED AT THE TIME OF PERMIT APPLICATION. WHEN RECEIVED AND REVIEWED, THESE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL BY THE CONTRACTOR:
- ARCHITECTURAL/METAL CLADDING PANEL
- METAL RAILINGS
- ANCHORAGE, BRACING AND ATTACHMENT OF REQUIRED ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, AND OTHER EQUIPMENT AND SYSTEMS.
- GRAIN BIN MODIFICATIONS

1B) CONNECTION OF DEFERRED SUBMITTAL ITEMS TO PRIMARY STRUCTURE BY DEFERRED SUBMITTAL SUPPLIER. DEFERRED SUBMITTAL SUPPLIER TO PROVIDE CONNECTIONS AND FRAMING ARRANGEMENT TO AVOID LOADING WHICH EXCEEDS THE CAPACITY OF THE ELEMENT BEING ATTACHED TO. REFERENCE LOAD MAPS FOR MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SPRINKLER LOAD ALLOWANCES.

1C) ALL DEFERRED SUBMITTALS TO BE ATTACHED TO PRIMARY STRUCTURE WITH A PINNED CONNECTION. MOMENT CONNECTIONS TO PRIMARY STRUCTURE NOT PERMITTED UNLESS NOTED ON DRAWINGS OR APPROVED BY ENGINEER IN WRITING PRIOR TO SUBMITTAL OF DRAWINGS OR CALCULATIONS.

1D) LOADING AND LOCATION FOR ATTACHMENT OF DEFERRED SUBMITTAL ITEMS ARE NOTED ON DRAWINGS AND ARE NOT TO BE RELOCATED OR INCREASED WITHOUT WRITTEN APPROVAL.

1E) GC / METAL STUD FRAMING DESIGNER / CLADDING DESIGNER COORDINATION:
- METAL STUD FRAMING AND FRAMING ATTACHMENT IS DESIGNED FOR THE TRIBUTARY WIND AND GRAVITY LOAD OF THE STUD SPACING. CLADDING SUPPLIER TO DESIGN CLADDING TO ATTACH AT EACH STUD. CLADDING ATTACHMENT SPACING WHICH EXCEEDS THE STUD SPACING IS NOT ACCEPTABLE WITHOUT APPROVAL FROM THE METAL STUD SUPPLIER/DESIGNER AND THE PROJECT EOR.
- IF THE CLADDING SUPPLIER DOES NOT WANT OR CANNOT ATTACH TO EACH STUD THE LOADS FROM THE CLADDING SUPPLIER MUST BE PROVIDED TO THE METAL STUD FRAMING SUPPLIER. THE METAL STUD FRAMING SUPPLIER WILL NEED TO INCORPORATE THESE LOADS INTO THE METAL STUD FRAMING DESIGN.
- GC TO COORDINATE BETWEEN METAL STUD FRAMING SUPPLIER AND CLADDING SUPPLIER AS REQUIRED.

1F) FLOOR FRAMING AND EDGE ANGLE ARE DESIGNED TO SUPPORT ONE LEVEL OF CURTAIN WALL OR METAL STUD WALL FRAMING. SUPPORTING MULTIPLE LEVELS OF CURTAIN WALL OR METAL STUD WALL FROM ONE FLOOR LEVEL IS NOT PERMITTED.

1G) WALLS, GRADE BEAMS AND THE UNDERSIDE OF CONCRETE ON METAL DECK SHALL BE CONSIDERED CRACKED FOR THE PURPOSE OF DESIGNING ANCHORS FOR ATTACHMENT OF DEFERRED SUBMITTAL ITEMS.

1H) SUBMIT STAMPED STRUCTURAL CALCULATIONS FOR ALL DEFERRED SUBMITTAL ITEMS PRIOR TO OR CONCURRENTLY WITH DRAWINGS OR PRODUCT DATA. INCLUDE ANALYSIS OF ATTACHMENT TO PRIMARY STRUCTURE. INCLUDE CURRENT ICC REPORT WITH ALL PROPRIETARY STRUCTURAL ELEMENTS AND ANCHORS/FASTENERS.

1I) POWDER ACTUATED FASTENERS (PAF) INTO CONCRETE OR CMU SHALL NOT BE USED TO RESIST TENSION LOADS. POWDER ACTUATED FASTENERS SHALL NOT BE USED TO RESIST GRAVITY LOADS WHICH INCLUDE BRICK VENEER.

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No. 17203
3/1/24

Project Name: SOUTHERN TENANT FARMER'S UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents: GENERAL NOTES

Issue Date: March 1, 2024

Revisions:
1 RE-BID April 19, 2024

Sheet No: S-1.0

QUALITY ASSURANCE GENERAL NOTES
STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

1) GENERAL:

1A) SCOPE OF WORK
- THE OWNER WILL ENGAGE A QUALIFIED INSPECTION AND TESTING AGENCY(S) TO PERFORM SPECIAL INSPECTIONS AND TESTING FOR ALL STRUCTURAL MEMBERS AND ASSEMBLIES AS NOTED HEREIN.
- SPECIAL INSPECTIONS ARE IN ADDITION TO INSPECTIONS BY THE AUTHORITY HAVING JURISDICTION REQUIRED BY IBC 2021 SECTION 110 AND PPRBC 2017.
- REFER TO THE SPECIFICATIONS FOR REPORTING AND PROCEDURAL REQUIREMENTS FOR QUALITY ASSURANCE AND QUALITY CONTROL.
- REFER TO ARCH/MECH/ELEC/CIVIL SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL SPECIAL INSPECTION AND TESTING THAT MAY BE REQUIRED.
- SPECIAL INSPECTIONS AND TESTING ARE APPLICABLE TO ALL REVISIONS AND/OR FUTURE WORK ADDED BY AMENDMENTS TO THESE DOCUMENTS.

1B) DEFINITIONS
- SPECIAL INSPECTOR: THE AGENCY ENGAGED BY THE OWNER AND APPROVED BY THE AUTHORITY HAVING JURISDICTION TO ACT AS THE DESIGNATED REPRESENTATIVE TO PERFORM INSPECTIONS.
- SPECIAL INSPECTION: INSPECTION PERFORMED BY THE SPECIAL INSPECTOR ACCORDING TO IBC 2021 SECTION 1704 AND PPRBC TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
- (P) PERIODIC INSPECTION: THE PART-TIME OR INTERMITTENT OBSERVATION BY THE SPECIAL INSPECTOR OF WORK BEING PERFORMED. SPECIAL INSPECTOR SHALL BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. OBSERVATION OF ALL WORK (100% VISUAL) SHALL BE MADE AT THE COMPLETION OF THE WORK.
- (C) CONTINUOUS INSPECTION: THE FULL-TIME OBSERVATION BY THE SPECIAL INSPECTOR OF WORK BEING PERFORMED. SPECIAL INSPECTOR SHALL BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. OBSERVATION OF ALL WORK (100% VISUAL) SHALL BE MADE AT THE COMPLETION OF THE WORK.

1C) DEFICIENCIES IN WORK
- CORRECT DEFICIENCIES IN WORK THAT TESTS AND INSPECTIONS INDICATE DO NOT COMPLY WITH THE CONTRACT DOCUMENTS AND REFERENCED STANDARDS.
- ALL COST OF ADDITIONAL TESTING AND/OR INSPECTIONS FOR CORRECTIVE WORK SHALL BE BORNE BY THE CONTRACTOR.

2) SHOP FABRICATIONS:

2A) GENERAL
- PERFORM INSPECTIONS AND TESTING FOR ALL SHOP FABRICATED STRUCTURAL MEMBERS AND ASSEMBLIES AS NOTED HEREIN. SPECIAL INSPECTOR SHALL PERFORM SPECIAL INSPECTIONS AND TESTING UNLESS THE FABRICATOR IS REGISTERED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION OR FABRICATION HAS A CURRENT ICC-ES EVALUATION REPORT.
- SPECIAL INSPECTOR SHALL VERIFY THE FABRICATOR MAINTAINS AND FOLLOWS DETAILED SHOP FABRICATION AND QUALITY CONTROL PROCEDURES, UNLESS FABRICATOR IS REGISTERED AND APPROVED.
- AT THE COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AUTHORITY HAVING JURISDICTION ACCORDING TO IBC 2015 SECTION 1704.2.5.1.
- APPROVED FABRICATORS MAY PERFORM TESTING NOTED HEREIN EXCEPT THAT NONDESTRUCTIVE TESTING (NDT) SHALL ONLY BE PERFORMED BY PERSONNEL WITH QUALIFICATIONS THAT MEET OR EXCEED THE CRITERIA OF AWS D1.1 SUBCLAUSE 6.14.6 AND AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING (ASNT) SNT-TC-1A OR ASNT CP-189.

2B) SHOP FABRICATIONS INCLUDED
- SHOP FABRICATED COLD FORMED STEEL ELEMENTS

STRUCTURAL COLD FORMED STEEL SPECIAL INSPECTIONS

ITEM	FREQUENCY	STANDARD	CRITERIA
FRAMING			
- MEMBERS AND CONNECTIONS	P	-	VERIFY TYPE, SIZE, LOCATION, SPACING
- BRIDGING AND BLOCKING	P	-	VERIFY TYPE, LOCATION, AND ATTACHMENT
- FIELD CUTS AND NOTCHES	P	-	NO CUTS OR NOTCHES THROUGH SECTION FLANGES PERMITTED
- SPLICING	P	-	NO SPLICING OF STRUCTURAL MEMBERS PERMITTED UNLESS SPECIFIED ON THE CONSTRUCTION DOCUMENTS
- PUNCHOUTS	P	-	VERIFY SPACING REQUIREMENTS FROM BEARINGS AND CONNECTIONS AND REINFORCING IS USED WHERE REQUIRED
- LOAD-BEARING WALL FRAMING	P	-	VERIFY STUD SEATED TIGHTLY WITHIN THE TOP AND BOTTOM TRACK WITH GAP NOT EXCEEDING PERMITTED DIMENSION, WHERE GAP IS EXCEEDED VERIFY SHIMS ARE PROVIDED
- FLOOR/ROOF FRAMING	P	-	VERIFY FRAMING IS ALIGNED OVER A BEARING STUD WITHIN PERMITTED DIMENSION
SHEATHED SHEAR WALL			
- PANEL SHEATHING	P	-	VERIFY TYPE AND THICKNESS
- ATTACHMENT	P	-	VERIFY PANEL SHEATHING BOUNDARY AND FIELD FASTENERS AND ATTACHMENT AT ALL EDGES OF SHEAR WALL
- HOLD-DOWN	P	-	VERIFY TYPE, SIZE, LOCATION AND ATTACHMENT
SCREWED ATTACHMENTS			
- FASTENER	P	-	VERIFY TYPE, DIAMETER, LENGTH, SPACING AND EDGE DISTANCES
- SCREW PENETRATION	P	-	VERIFY MATERIALS HAVE BEEN DRAWN TOGETHER AND SCREWS ARE FULLY DRIVEN WITH A MINIMUM PENETRATION OF 3 THREADS THROUGH THE LAST MATERIAL JOINED
- DAMAGED SCREWS	P	-	NO POPPED SCREW HEADS OR STRIPPED SCREWS ARE PERMITTED. ALL DAMAGED SCREWS SHALL BE REPLACED
- COLD FORMED STEEL ASSEMBLIES	P	ICC-ES REPORT	VERIFY TYPE, NUMBER OF FASTENERS, AND INSTALLATION IN CONFORMANCE WITH ICC-ES REPORT
POWER-ACTUATED FASTENERS			
- PRIOR TO INSTALLATION	FIRST OF EACH FASTENER TYPE AND BASE MATERIAL	ICC-ES REPORT	VERIFY TYPE, DIAMETER, LENGTH, FINISH, AND BASE MATERIAL
- DURING INSTALLATION	P	ICC-ES REPORT	-
- AFTER INSTALLATION	100% VISUAL	-	VERIFY MATERIALS HAVE BEEN DRAWN TOGETHER AND FASTENER HEAD STAND-OFF IS ACCEPTABLE (FULLY DRIVEN).

SOILS SPECIAL INSPECTIONS

ITEM	FREQUENCY	STANDARD`	CRITERIA
SUBGRADE			
- EXCAVATION	P	-	VERIFY EXCAVATIONS ARE EXTENDED TO THE PROPER DEPTH AND HAVE REACHED THE PROPER BEARING MATERIAL
- BEARING MATERIAL	P	SOILS REPORT	VERIFY BEARING MATERIAL IS ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY
CONTROLLED FILL			
- PRIOR TO PLACEMENT	P	-	VERIFY SUBGRADE HAS BEEN PROPERLY PREPARED
- PLACEMENT	C	-	VERIFY USE OF PROPER MATERIALS, DENSITIES, COMPACTION, AND LIFT...

SOILS SPECIAL INSPECTION NOTES:

1. SEE CIVIL DRAWINGS AND/OR SPECIFICATIONS FOR ADDITIONAL EARTHWORK AND UTILITY INSPECTION REQUIREMENTS.
2. SEE CIVIL DRAWINGS AND/OR SPECIFICATIONS FOR CLASSIFICATION AND TESTING REQUIREMENTS FOR COMPACTED FILL AND/OR CONTROLLED LOW-STRENGTH MATERIAL.

STRUCTURAL CONCRETE TESTING

ITEM	FREQUENCY	STANDARD	CRITERIA
CONCRETE			
- COMPOSITE SAMPLE			
1. f'c < 5000 PSI	100 CY/MIX/DAY	ASTM C172	OBTAIN AT POINT OF PLACEMENT. FOR DRILLED PIERS OBTAIN NEAR BEGINNING OF LOAD PRIOR TO PLACEMENT IN SHAFT. ADJUST FREQUENCY AS REQUIRED TO PROVIDE MINIMUM 5 TOTAL TESTS PER MIX BUT NOT MORE THAN ONE SAMPLE PER TRUCK LOAD
- SLUMP/SLUMP FLOW	EACH COMPOSITE SAMPLE	ASTM C143 (SLUMP) OR ASTM C1611 (SLUMP FLOW)	SPECIFIED SLUMP SHALL BE AS SUMBITTED IN THE MIX DESIGN ± 1 1/2". PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE
- TEMPERATURE	EACH COMPOSITE SAMPLE AND 60 MINUTE...	ASTM C1064	REQUIRED WHEN AIR TEMPERATURE IS 40 °F AND BELOW OR 80°F AND ABOVE
- COLD WEATHER CURING	-	ASTM C1074	RECORD MAXIMUM AND MINIMUM CONCRETE TEMPERATURE DURING CURING PERIOD, WHEN DAILY AVERAGE AIR TEMPERATURE OF 40 °F OR BELOW IS EXPECTED FOR 3 SUCCESSIVE DAYS DURING CURING PERIOD
- COMPRESSIVE STRENGTH	EACH COMPOSITE SAMPLE	ASTM C31 ASTM C39 EITHER: (4)6x12 OR (6)4x8 CYLINDERS	TEST PER SCHEDULE BELOW: - 7 DAYS: (1)6x12 OR (1)4x8 - 28 DAYS: (2)6x12 OR (3)4x8 - 56 DAYS: (1)6x12 OR (2)4x8 (IF 28 DAY TESTS DO NOT ACHIEVE SPECIFIED 28 DAY STRENGTH) ACCEPTANCE CRITERIA PER ACI 318

STRUCTURAL CONCRETE TESTING NOTES:

1. NONDESTRUCTIVE TESTING MAY BE PERMITTED BY THE ARCHITECT, BUT WILL NOT BE USED AS SOLE BASIS FOR APPROVAL OR REJECTION OF DEFICIENT CONCRETE.
2. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE FOLLOWING INFORMATION: DATE OF CONCRETE PLACEMENT, LOCATION OF CONCRETE BATCH IN WORK, DESIGN 28-DAY COMPRESSIVE STRENGTH, CONCRETE SUPPLIER AND MIXTURE ID NUMBER, TIME OF BATCH AND PLACEMENT, AMBIENT AIR TEMPERATURE, SITE ADDED WATER AND ADMIXTURES, UNIT WEIGHT, AND AS REQUIRED BY ASTM C39.

STRUCTURAL CONCRETE SPECIAL INSPECTIONS

ITEM	FREQUENCY	STANDARD	CRITERIA
REINFORCING STEEL			
- DURING PLACEMENT	P	ACI 318 3.5, 7.1-7.7	VERIFY GRADE, FINISH, SIZE, BAR QUANTITY, LOCATION, SPACING, COVER, HOOK LENGTHS, SPLICE LENGTH, SPLICE LOCATIONS, BEND DIAMETERS, COATING, SURFACE CONDITION, AND SUPPORT
- PRIOR TO PLACEMENT OF CONCRETE	100%		
- FIELD BENDING	P	ACI 301 3.3.2.8	-
- MECHANICAL CONNECTORS	C	ICC-ES REPORT	-
BOLTS AND EMBEDMENTS			
- PRIOR TO PLACEMENT OF CONCRETE	100%	-	VERIFY TYPE, FINISH, DIAMETER, LENGTH, QUANTITY, EMBEDMENT LENGTH, SPACING AND EDGE DISTANCES. VERIFY USE OF PLACING TEMPLATE WHERE SPECIFIED
CONCRETE			
- MIX DESIGN	EACH TRUCK	-	VERIFY USE OF APPROVED DESIGN MIXTURE FOR EACH TRUCK LOAD
- FORMWORK PRIOR TO PLACEMENT OF CONCRETE	P	ACI 318 6.1.1	INSPECT FIRST POUR OF EACH TYPE (GRADE BEAM, COLUMN, STRUCTURAL SLAB, SLAB-ON-DECK, ETC.)
- PLACEMENT OF CONCRETE	C	ACI 318 5.9-5.10	-
- CURING	P	ACI 318 5.11-5.13	-

STRUCTURAL STEEL INSPECTIONS

ITEM	INSPECTION TASK	STANDARD	CRITERIA/REMARKS
- PRIOR TO FABRICATION OR ERECTION	PERFORM	AISC 360, CHAPTER N	REVIEW MATERIAL TEST REPORTS AND CERTIFICATIONS FOR STRUCTURAL STEEL, FASTENERS, ANCHOR RODS, HEADED STUD ANCHORS
PRIOR TO WELDING			
- REVIEW MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AND WELDING PROCEDURE SPECIFICATIONS	PERFORM	AISC 360, CHAPTER N	-
- FIT UP OF WELDS, INCLUDING JOINT GEOMETRY, AND CONFIGURATIONS AND FINISH OF ACCESS HOLES	OBSERVE	AISC 360, CHAPTER N	-
- MATERIAL IDENTIFICATION	OBSERVE	AISC 360, CHAPTER N	-
- WELDER IDENTIFICATION SYSTEM	OBSERVE	AISC 360, CHAPTER N	-
DURING WELDING			
- USE OF QUALIFIED WELDERS	OBSERVE	AISC 360, CHAPTER N	-
- CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE	AISC 360, CHAPTER N	-
- NO WELDING OVER CRACKED TACK WELDS	OBSERVE	AISC 360, CHAPTER N	-
- ENVIRONMENTAL CONDITIONS, AND WPS FOLLOWED	OBSERVE	AISC 360, CHAPTER N	-
- WELDING TECHNIQUES - SINGLE PASS WELDS	OBSERVE	AISC 360, CHAPTER N	-
- WELDING TECHNIQUES - MULTI-PASS WELDS	OBSERVE	AISC 360, CHAPTER N	-
AFTER WELDING			
- WELDS CLEANED	OBSERVE	AISC 360, CHAPTER N	-
- SIZE, LENGTH, AND LOCATION OF WELDS	PERFORM	AISC 360, CHAPTER N	-
- WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM	AISC 360, CHAPTER N, AWS D1.1	WHERE INSPECTOR OBSERVES QUESTIONABLE WELDS, NON-DESTRUCTIVE TESTING SHALL BE PERFORMED
- ARC STRIKES	PERFORM	AISC 360, CHAPTER N	-
- K-AREA	PERFORM	AISC 360, CHAPTER N	-
- REPAIR ACTIVITIES	PERFORM	AISC 360, CHAPTER N	-
- PLACEMENT AND INSTALLATION OF HEADED STUD ANCHORS	PERFORM	AISC 360, CHAPTER N	-
- DOCUMENT ACCEPTANCE OR REJECTION OF WELDED MEMBER OR JOINT	PERFORM	AISC 360, CHAPTER N	-
PRIOR TO BOLTING			
- REVIEW MANUFACTURER CERTIFICATIONS FOR FASTENER MATERIALS	PERFORM	AISC 360, CHAPTER N	-
- FASTENERS MARKS IN ACCORDANCE WITH ASTM REQUIREMENTS	OBSERVE	AISC 360, CHAPTER N	-
- PROPER FASTENERS AND BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	OBSERVE	AISC 360, CHAPTER N	-
- CONNECTING ELEMENTS MEET REQUIREMENTS, INCLUDING HOLE REPAIR AND FAYING SURFACE	OBSERVE	AISC 360, CHAPTER N	-
- PRE-INSTALLATION VERIFICATION TESTING	OBSERVE	AISC 360, CHAPTER N	NOT APPLICABLE FOR SNUG TIGHT JOINTS
- PROPER STORAGE FOR FASTENER COMPONENTS	OBSERVE	AISC 360, CHAPTER N	-
DURING BOLTING			
- FASTENERS PLACED IN ALL HOLES AND POSITIONED AS REQUIRED	OBSERVE	AISC 360, CHAPTER N	-
AFTER BOLTING			
- DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	PERFORM	DOCUMENT ACCEPTANCE OR REJECTION MEMBER OR JOINT	-

OBSERVE - OBSERVE THESE ITEMS ON A RANDOM BASIS
PERFORM - THESE INSPECTIONS SHALL BE PERFORMED FOR EACH WELDED CONNECTION, EACH BOLTED CONNECTION, AND EACH ITEM, PRIOR TO ACCEPTANCE

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No. 17203
RALPH FISHER
3/1/24

GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

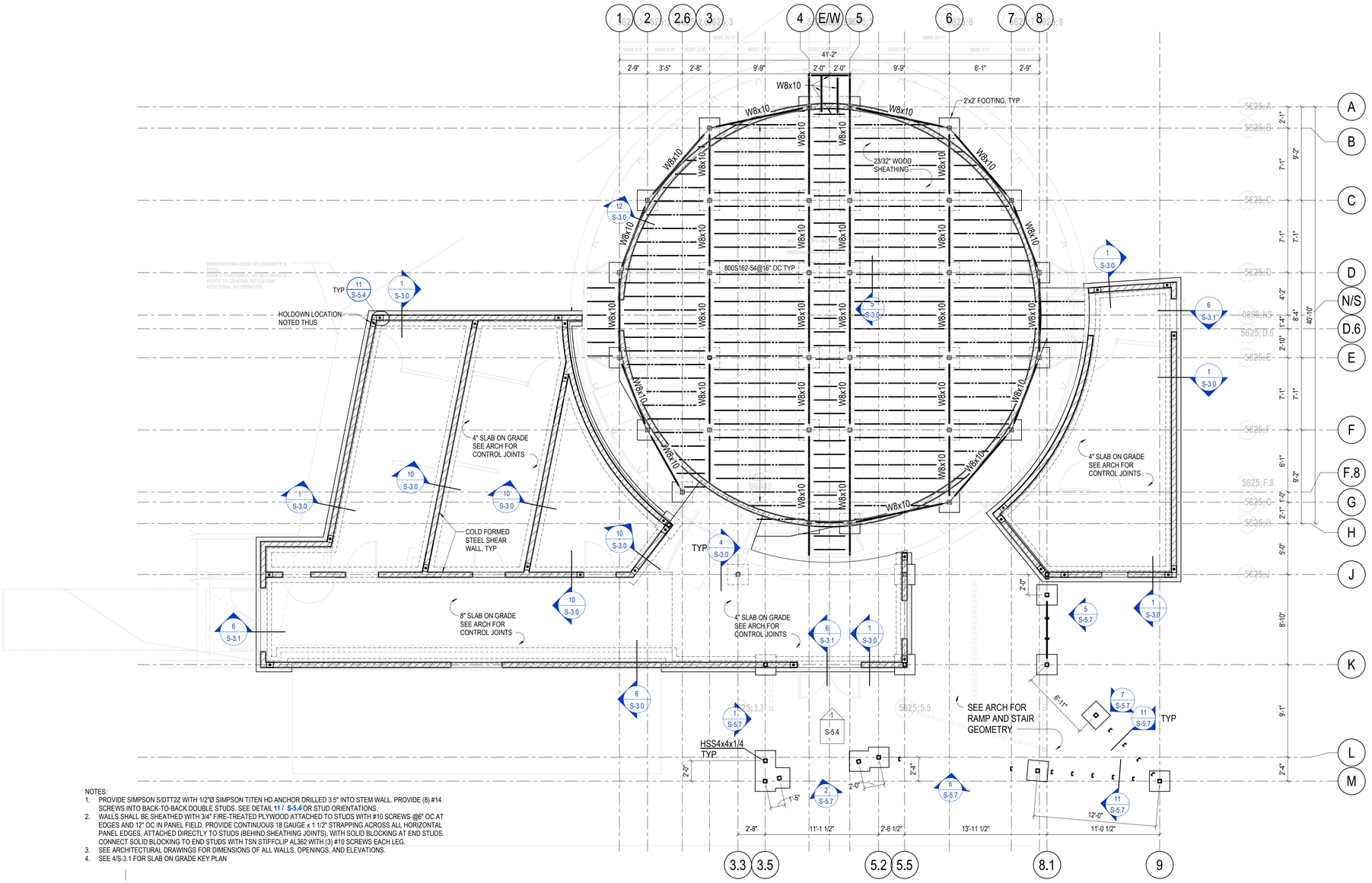
Project Name:
SOUTHERN TENANT FARMER'S UNION MUSEUM

Sheet Contents:
QUALITY ASSURANCE

Issue Date:
March 1, 2024

Revisions:
1 RE-BID
April 19, 2024

Sheet No:
S-1.1



NOTES:

1. PROVIDE SIMPSON S/DTT2Z WITH 1/2"Ø SIMPSON TITEN HD ANCHOR DRILLED 3.5" INTO STEM WALL. PROVIDE (8) #14 SCREWS INTO BACK-TO-BACK DOUBLE STUDS. SEE DETAIL 11 / S-5.4 FOR STUD ORIENTATIONS.
2. WALLS SHALL BE SHEATHED WITH 3/4" FIRE-TREATED PLYWOOD ATTACHED TO STUDS WITH #10 SCREWS @6" OC AT EDGES AND 12" OC IN PANEL FIELD. PROVIDE CONTINUOUS 18 GAUGE x 1 1/2" STRAPPING ACROSS ALL HORIZONTAL PANEL EDGES, ATTACHED DIRECTLY TO STUDS (BEHIND SHEATHING JOINTS), WITH SOLID BLOCKING AT END STUDS. CONNECT SOLID BLOCKING TO END STUDS WITH TSN STIFFCLIP AL362 WITH (3) #10 SCREWS EACH LEG.
3. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF ALL WALLS, OPENINGS, AND ELEVATIONS.
4. SEE 4/S-3.1 FOR SLAB ON GRADE KEY PLAN

NORTH

1 FLOOR PLAN
S-2.0

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REGISTERED
3/1/24

Project Name:
SOUTHERN TENANT FARMER'S UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents:
FOUNDATION PLAN

Issue Date:
March 1, 2024

Revisions:
1 RE-BID
April 19, 2024

Sheet No:
S-2.0

NOTES:
1. SEE 9/S-5.5 FOR DIAPHRAGM SHEATHING SCHEDULE.

NORTH

1 ROOF
S-2.1

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Ralph Revival
3/1/24

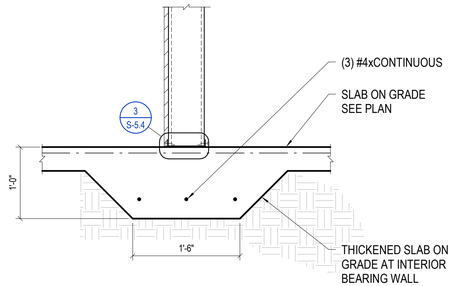
Project Name:
SOUTHERN TENANT FARMER'S UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents:
ROOF PLAN

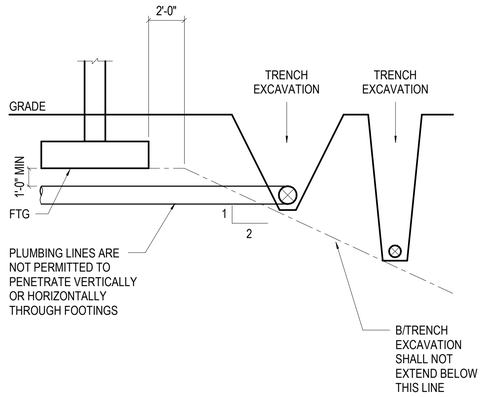
Issue Date:
March 1, 2024

Revisions:
⚠ RE-BID
April 19, 2024

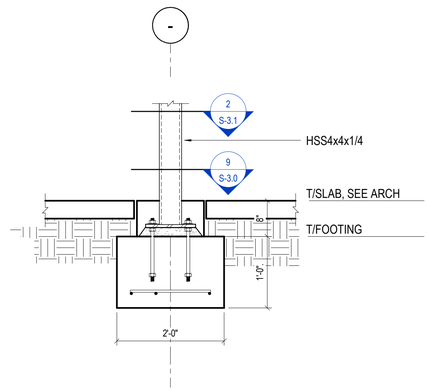
Sheet No:
S-2.1



10 THICKENED SLAB ON GRADE AT INTERIOR BEARING WALL
S-3.0

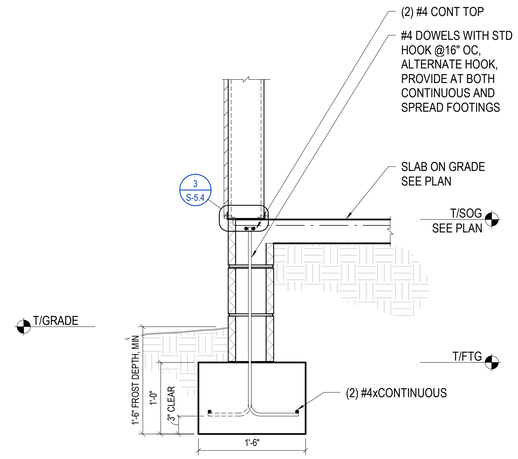


7 TYP EXCAVATION AT FTG
S-3.0

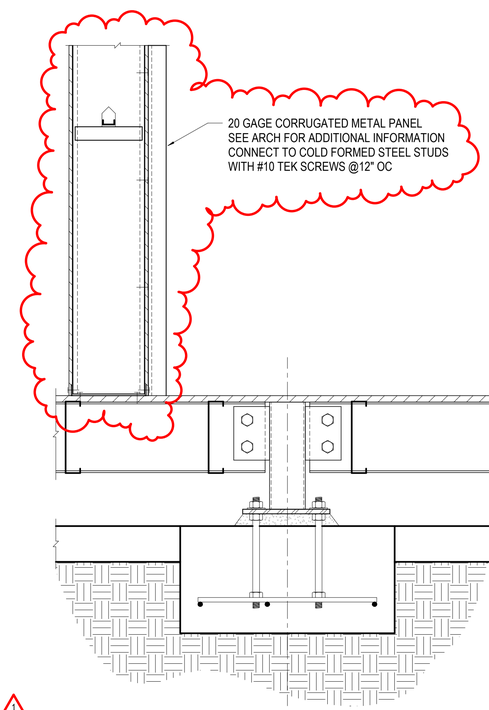


NOTES:
1. SEE 5/S-3.0 FOR FOOTING REINFORCEMENT

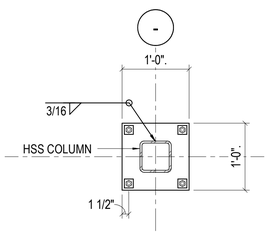
4 INTERIOR COLUMN AT SPREAD FOOTING
S-3.0

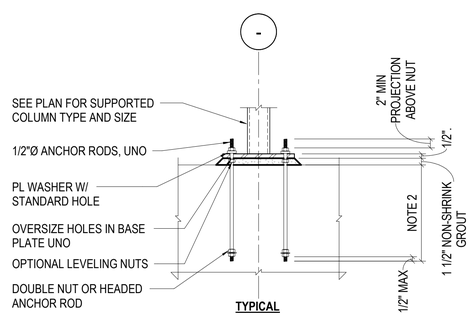


1 TYPICAL STRIP FOOTING
S-3.0



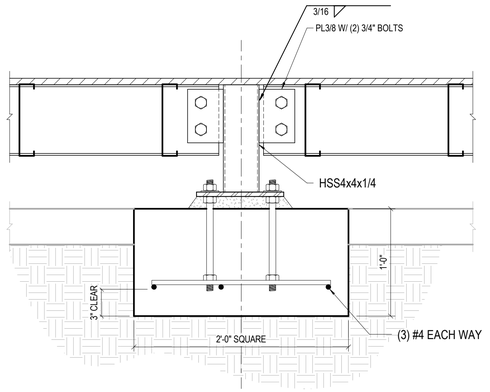
12 CORRUGATED WALL PANEL
S-3.0



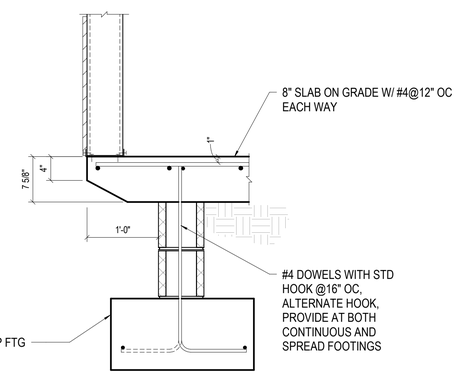


NOTES:
1. GREATER OF 9" OR 8xANCHOR ROD Ø
   A. DECREASE AS REQUIRED TO PROVIDE 3" CLEAR COVER AT FOOTING LOCATIONS
2. 2"Ø MAXIMUM GROUT HOLE AT CONTRACTOR'S OPTION. ONE OR TWO GROUT HOLES RECOMMENDED FOR BASE PLATES LARGER THAN 24" IN WIDTH.

9 TYPICAL GRAVITY COLUMN BASE PLATE
S-3.0



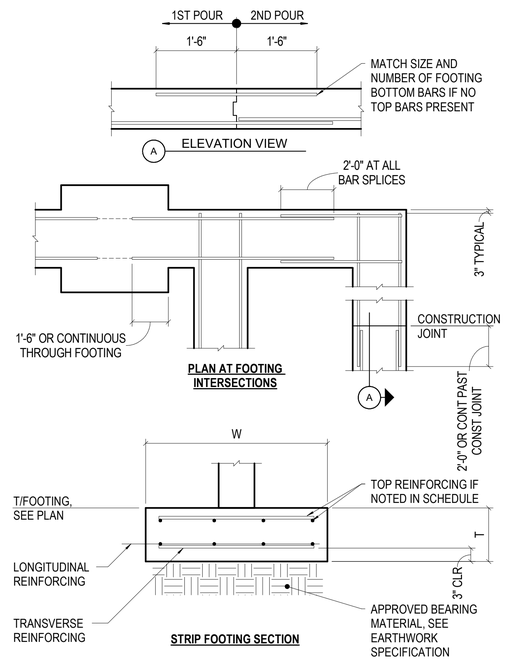
5 FOOTING IN GRAIN BIN
S-3.0



6 SLAB ON GRADE CANTILEVER
S-3.0

STRIP FOOTING SCHEDULE

MARK	FOOTING SIZE W x T	LONG REINF	TRANS REINF	REMARKS
SF18	1'-6"x 1'-0"	(2) #4	#4@18" OC	BOT



3 TYP STRIP FOOTING
S-3.0

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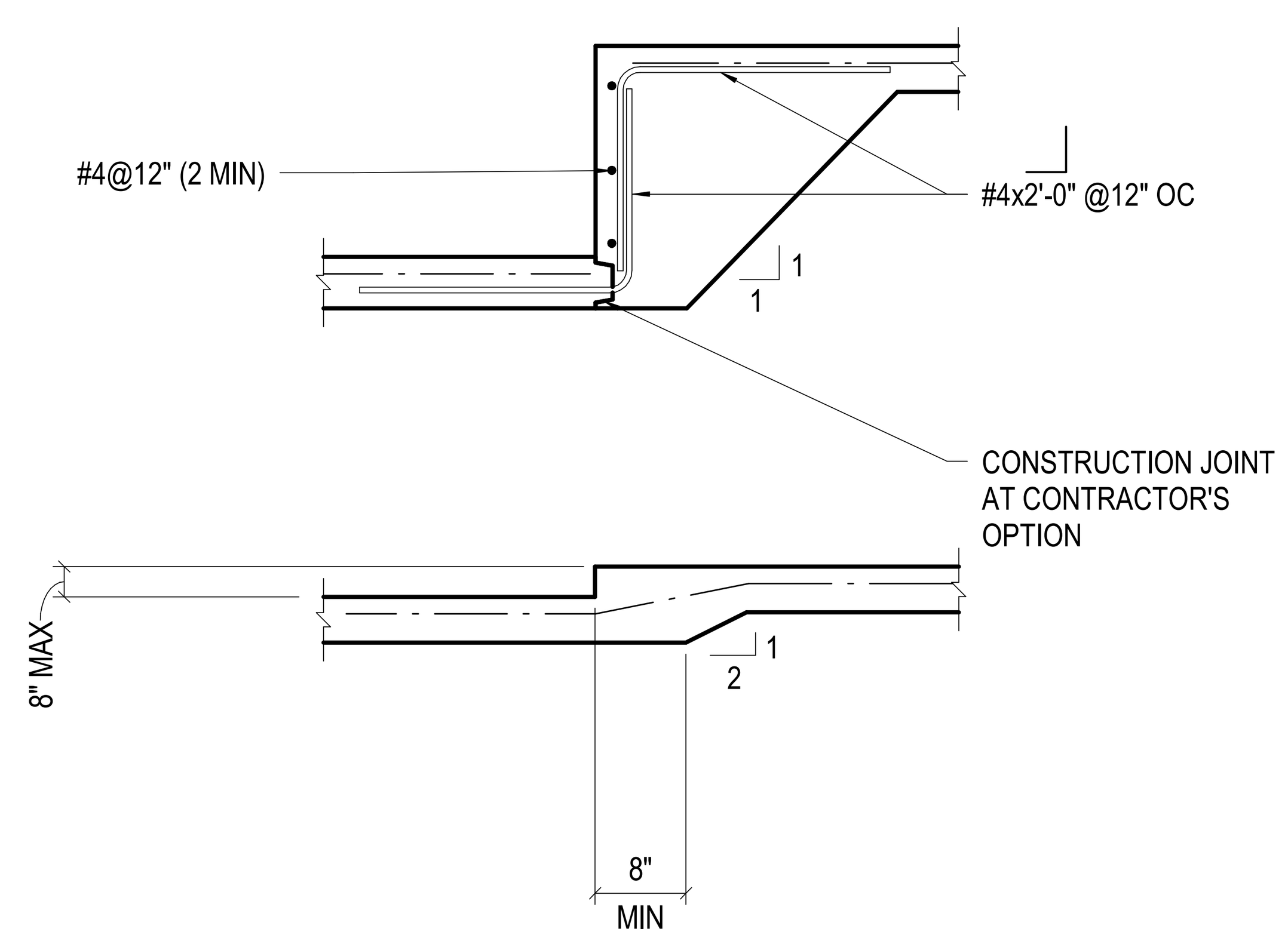
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 17203
3/1/24

Project Name:
SOUTHERN TENANT FARMER'S UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

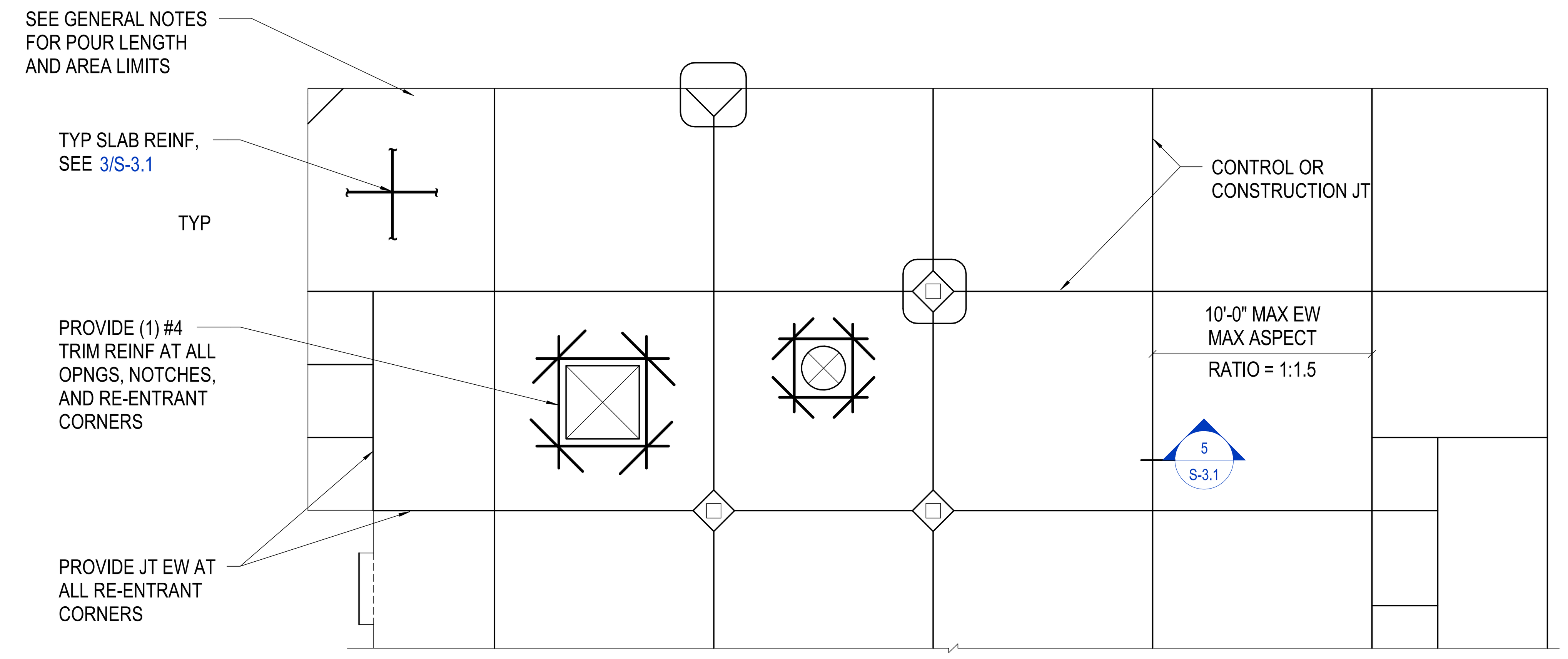
Sheet Contents:
FOUNDATION DETAILS

Issue Date:
March 1, 2024
Revisions:
1 RE-BID
April 19, 2024

Sheet No:
S-3.0

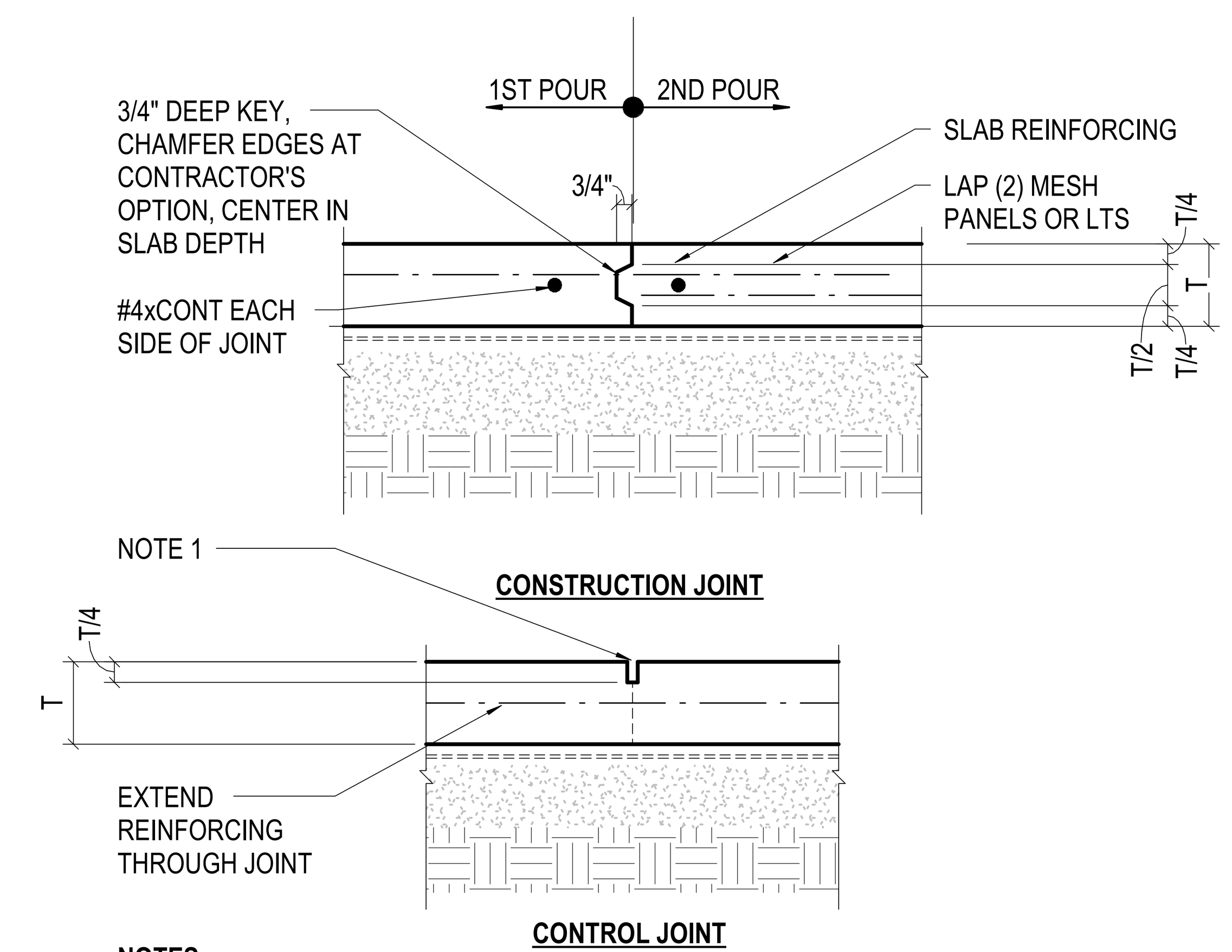


7 TYPICAL SOG STEP
S-3.1



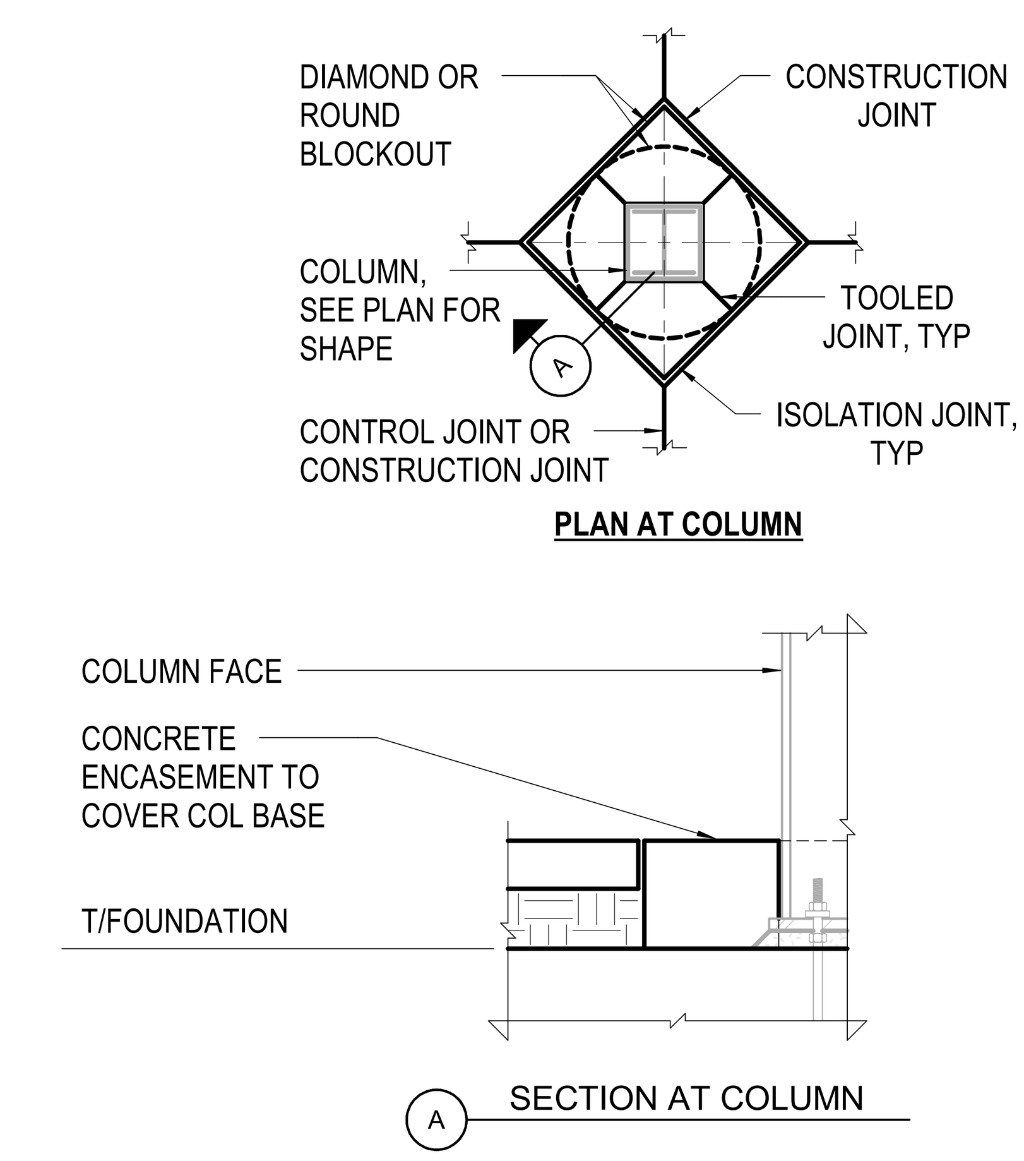
NOTES:
1. KEY PLAN ILLUSTRATES CONSTRUCTION CONCEPTS ONLY. SEE PLAN FOR ACTUAL DIMENSIONS AND ARRANGEMENT
2. PROVIDE ADDITIONAL CONTROL JOINTS AT ABRUPT CHANGES IN THICKNESS AND LOCATIONS PRONE TO CRACKING, COORD LOCS WITH FLOOR FINISHES AND INTERIOR WALLS

4 TYP SOG KEY PLAN
S-3.1

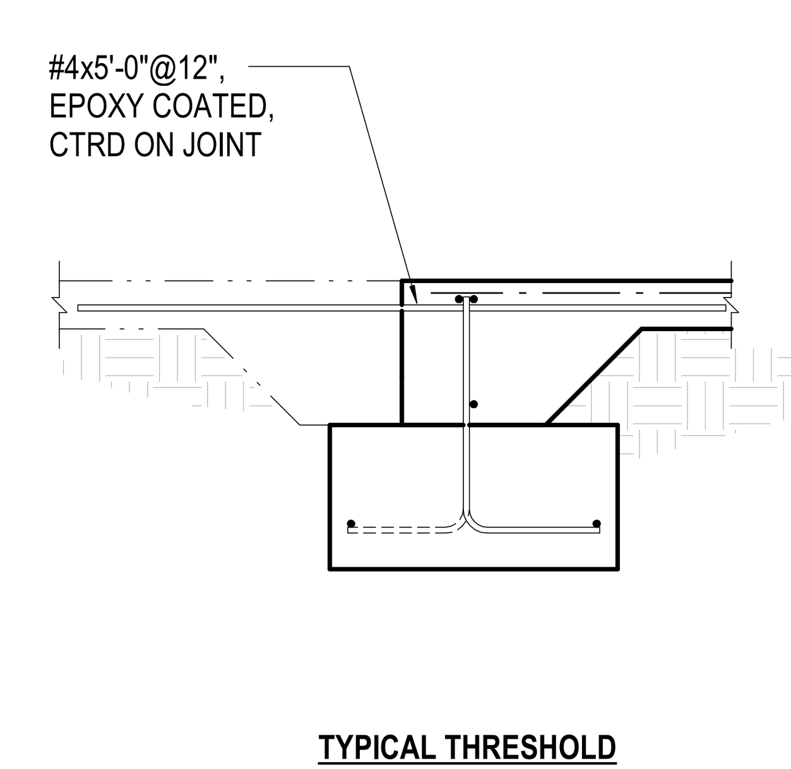


NOTES:
1. PROVIDE TOOLED JOINT OR SAW CUT AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT CUTTING WITHOUT CHIPPING, SPALLING, OR TEARING (BUT NOT MORE THAN 12 HOURS AFTER CASTING)

5 SLAB ON GRADE JOINTS
S-3.1



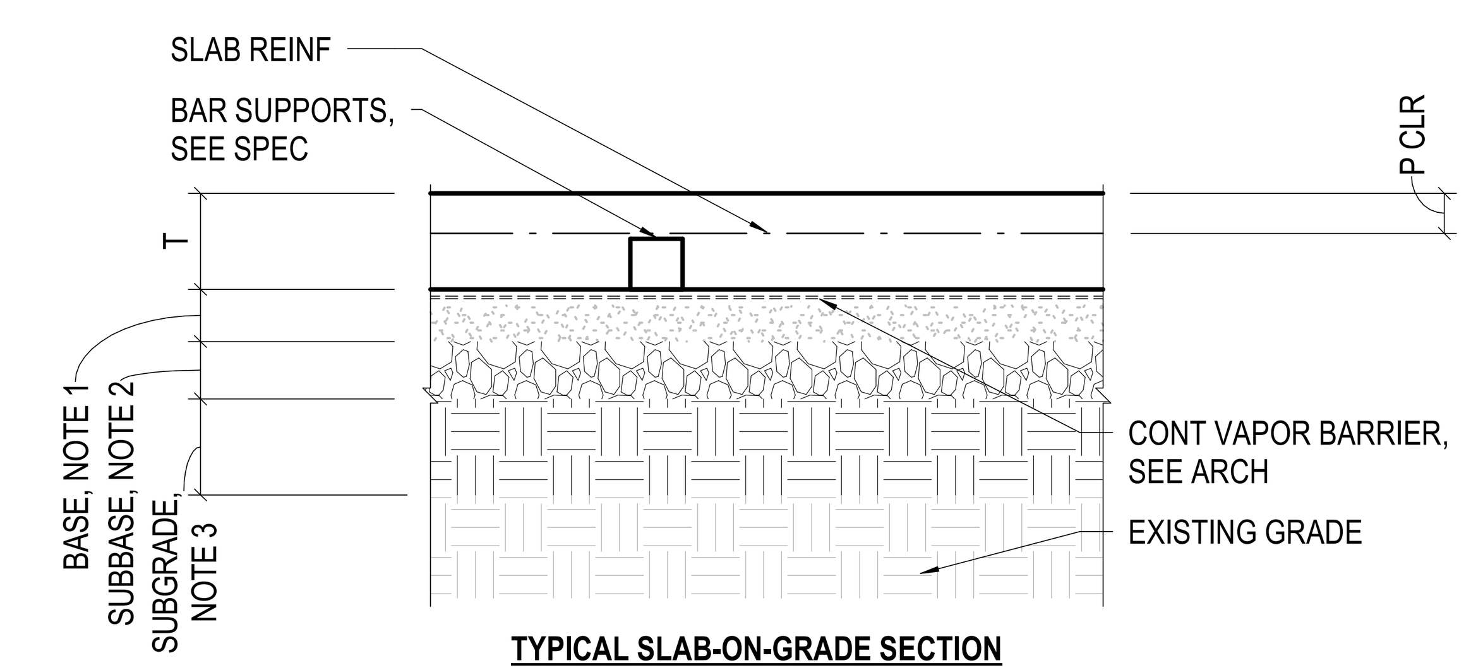
2 SOG BLOCKOUT AT COLUMN
S-3.1



6 TYP THRESHOLD
S-3.1

SLAB ON GRADE SCHEDULE

TYPE	THICKNESS T	REINF	BAR POSITION	REMARKS
SOG4	4"	6x6-W1.4xW1.4	1"	-
SOG8	8"	#4@12" EW	1"	-



NOTES:
1. OPTIONAL COMPACTED GRAVEL OR SAND BASE LAYER 2" TO 4" THICK.
2. REQUIRED GRAVEL OR SAND SUBBASE LAYER.
3. PROPERLY COMPACTED AND PREPARED SUBGRADE.

3 TYP SOG REINFORCING
S-3.1

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STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 17203 RALEIGH FISHER 3/1/24

Project Name:
SOUTHERN TENANT FARMER'S UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents:
TYPICAL SOG DETAILS

Issue Date:
March 1, 2024

Revisions:
1 RE-BID
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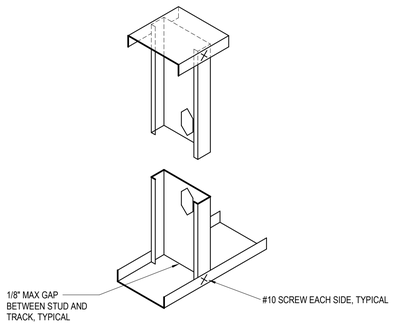
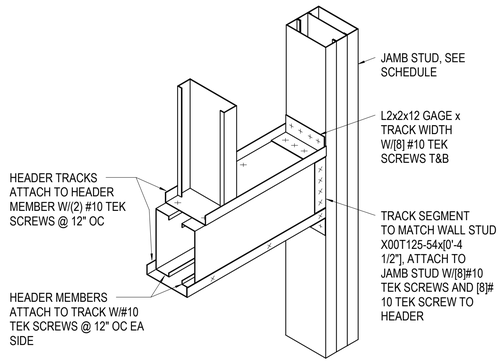
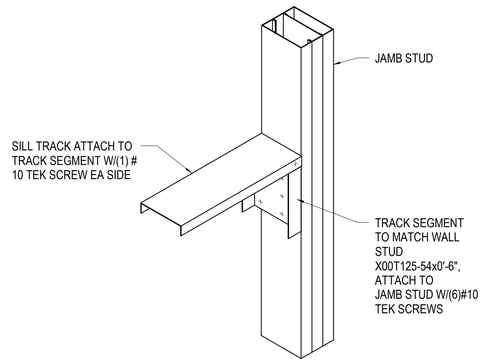
Sheet No:
S-3.1



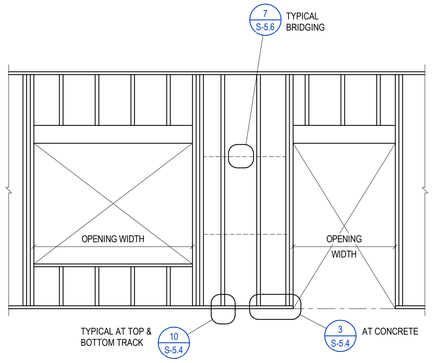
10 TYPICAL STUD TO TRACK
S-5.4



AT HEADER

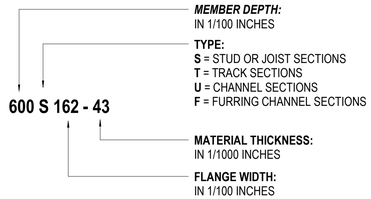


AT SILL



SEE 5 / S-5.6 FOR TYPICAL FASTENER INFO
SEE 3 / S-5.6 FOR TYPICAL PUNCHOUT REINFORCING

1 TYPICAL WALL FRAMING
S-5.4

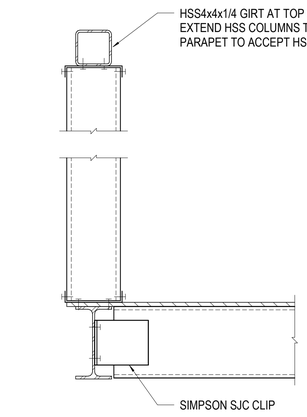


TYPICAL ANNOTATION

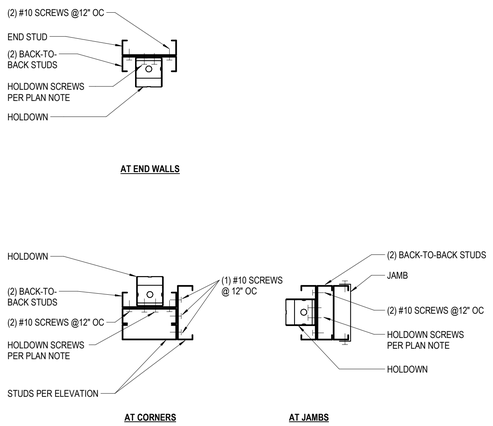
HEADER AND SILL SCHEDULE		
OPNG WIDTH	TYPICAL AREAS	
	HEADER	SILL
6'-0"	(2) 600S162-43 AND (2) 600T125-43	600T125-43
8'-0"	(2) 800S162-43 AND (2) 600T125-43	600T125-43

WALL SCHEDULE		
HEIGHT	TYPICAL WALL AREAS	TOP & BOT TRACK
16'-0"	600S162-43 @ 16" OC	600T125-43
35'-0"	800S162-54 @ 16" OC	800T125-43

2 TYP CF WALL SCHEDULE
S-5.4

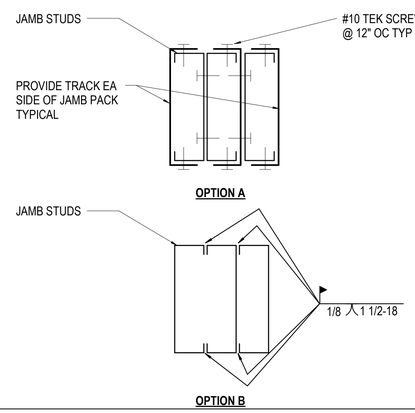


12 HSS PARAPET GIRT DETAIL
S-5.4



11 HOLDOWN DETAILS
S-5.4

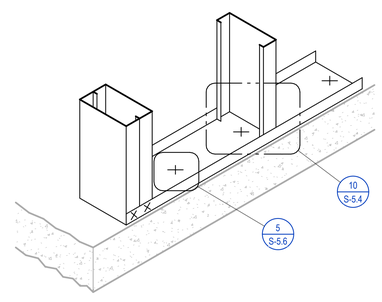
JAMB SCHEDULE	
OPENING WIDTH	TYPICAL AREAS
6'-0"	(2) 600S162-54
6'-0"	(3) 600S162-54



9 TYP CF JAMB SCHEDULE
S-5.4

LOCATION	NUMBER OF FASTENERS REQUIRED
TYPICAL FRAMING	(2) 0.157"Ø PAF @ 16" OC
JAMBS	(4) 0.157"Ø PAFs PER JAMB STUD

NOTES:
1. 1 1/4" EMBED REQUIRED FOR ALL PAFs
2. FOR JAMBS SEE:



3 BOTTOM TRACK TO CONCRETE
S-5.4

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Project Name: SOUTHERN TENANT FARMER'S UNION MUSEUM GRAIN BIN RESTORATION TYRONZA, ARKANSAS 72386

Sheet Contents: CFS WALL DETAILS

Issue Date: March 1, 2024

Revisions:
1 RE-BID April 19, 2024

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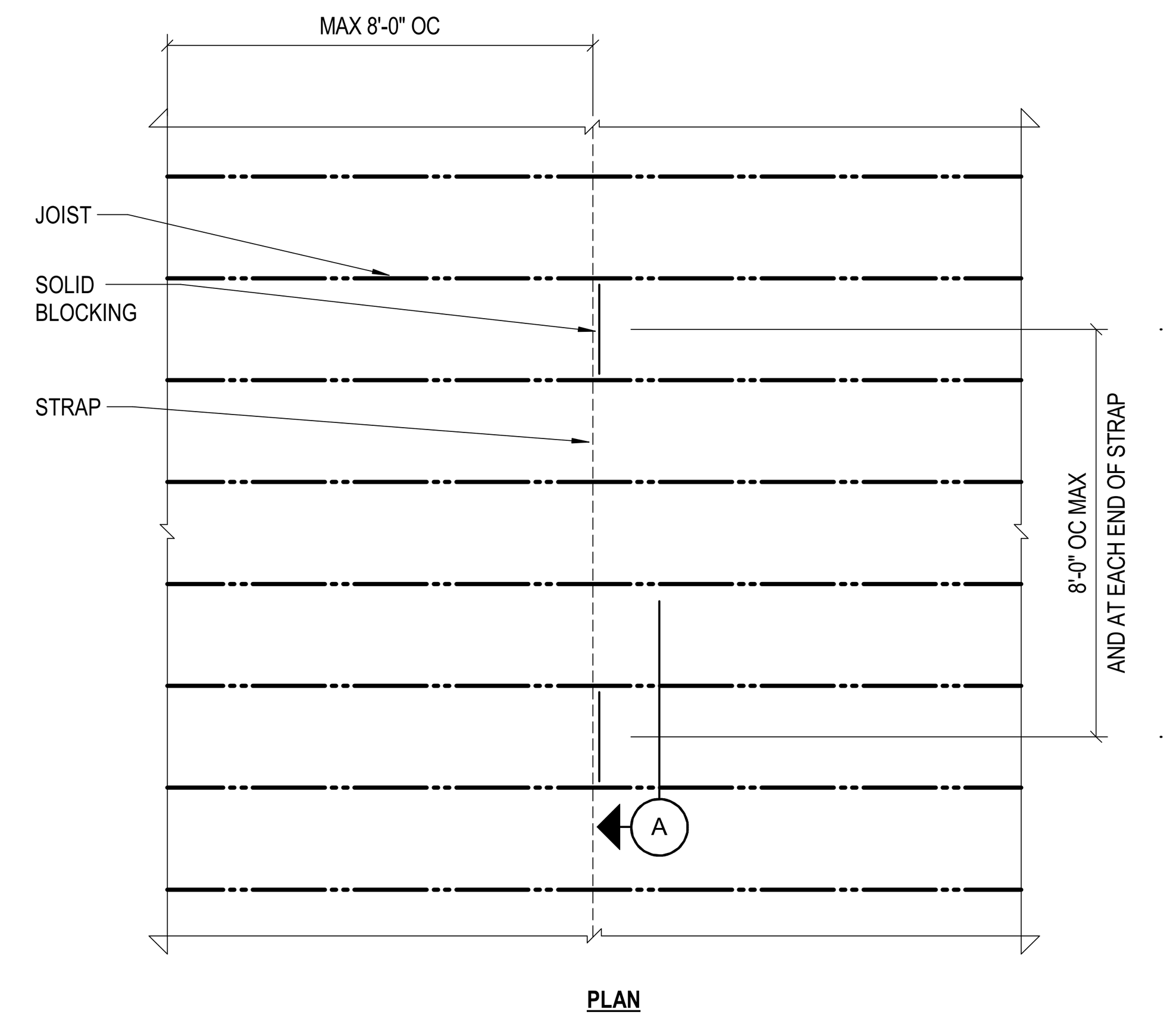
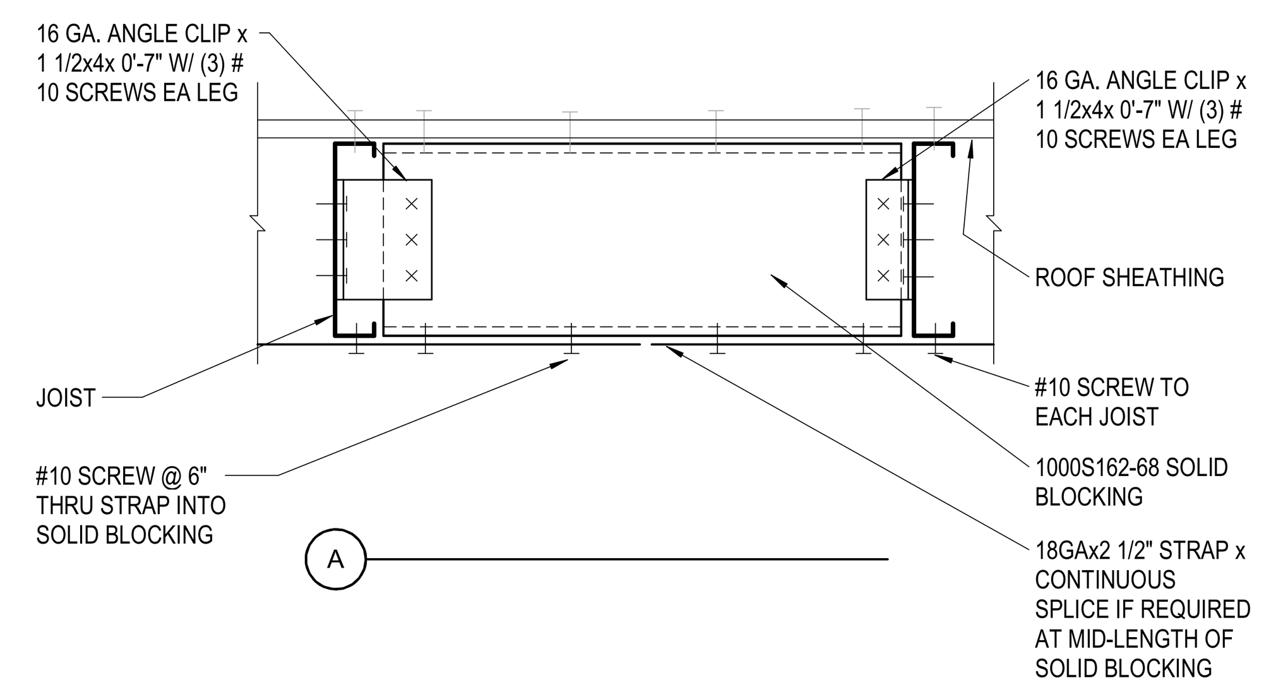
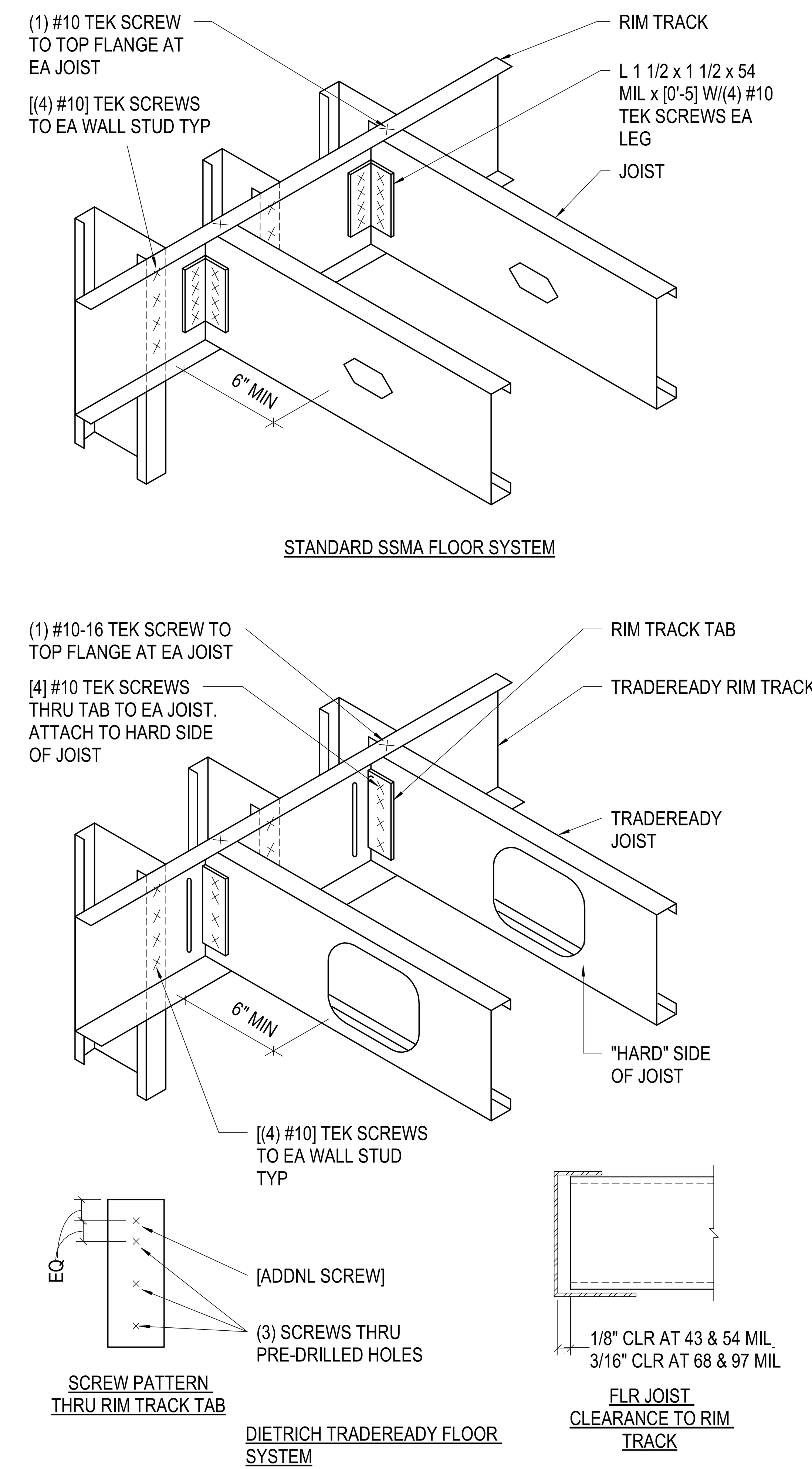
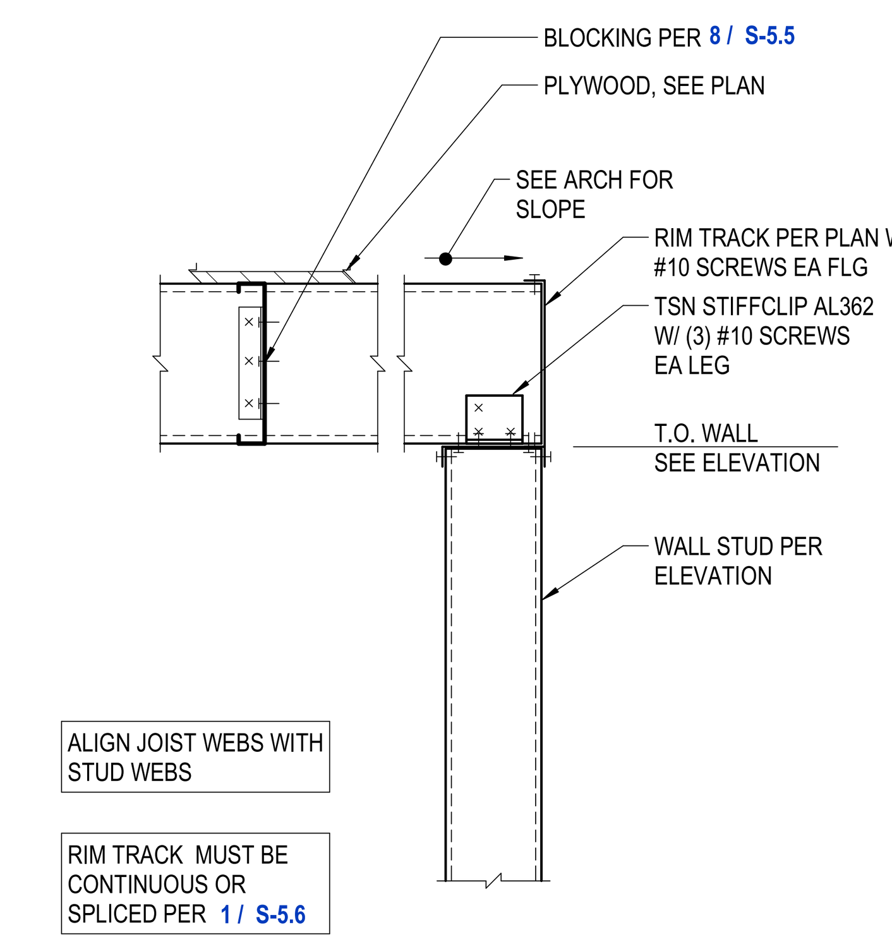




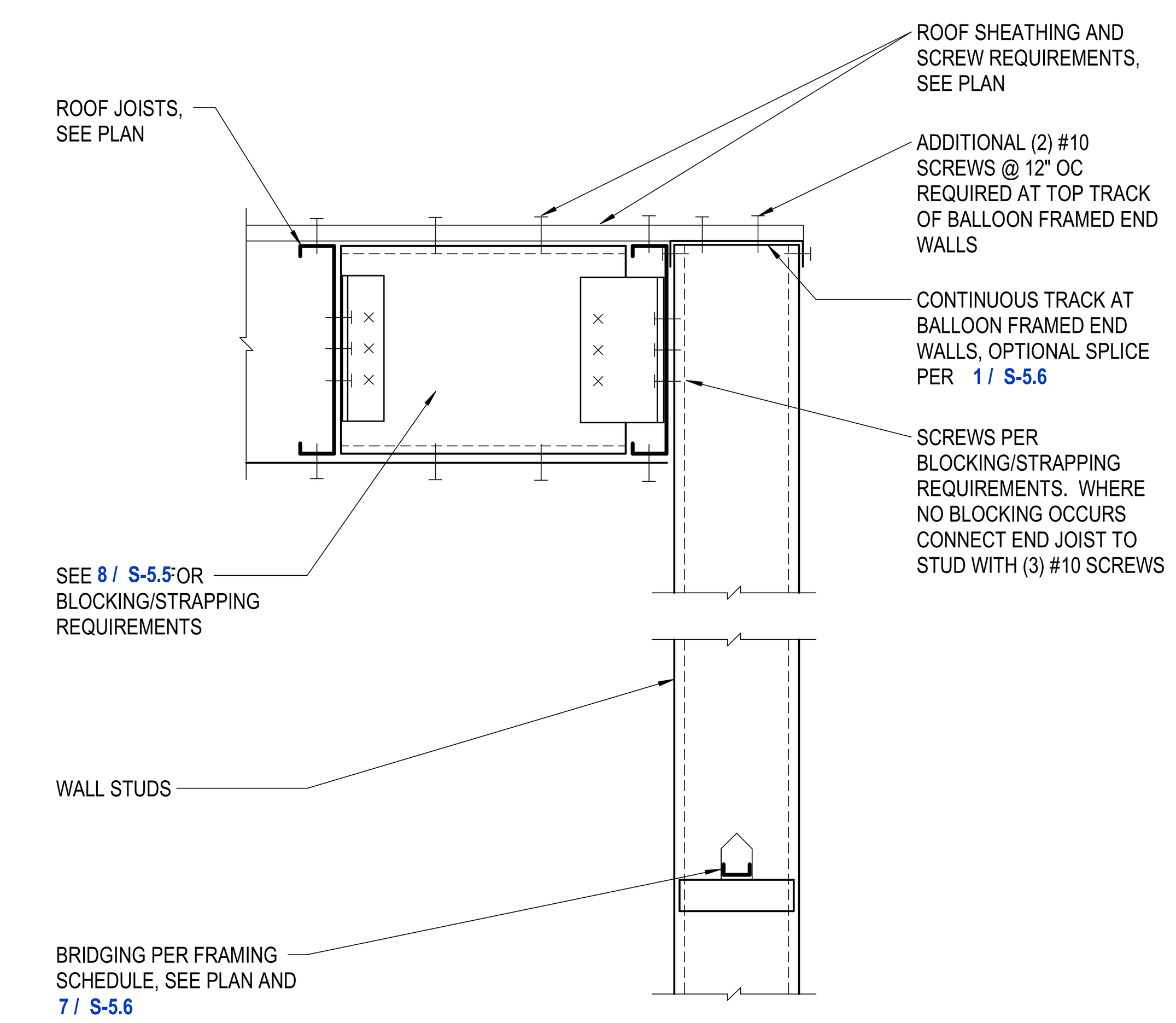
8 LB STRUCTURAL BLOCKING OF JOISTS
S-5.5



5 TYP CF LB JOIST END CONN TO RIM TRACK
S-5.5



1 SECTION AT ROOF
S-5.5

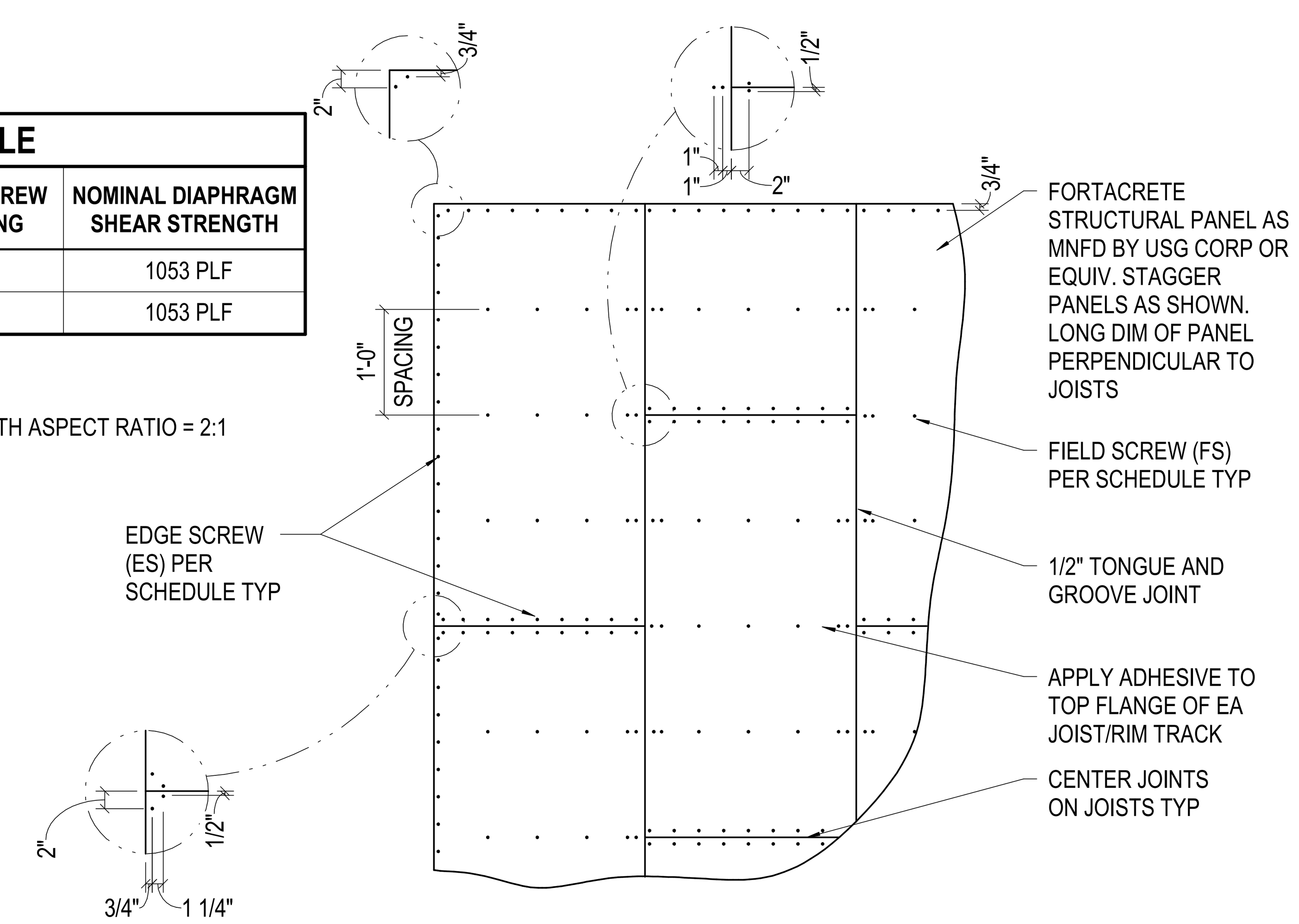


2 SECTION AT END WALLS
S-5.5

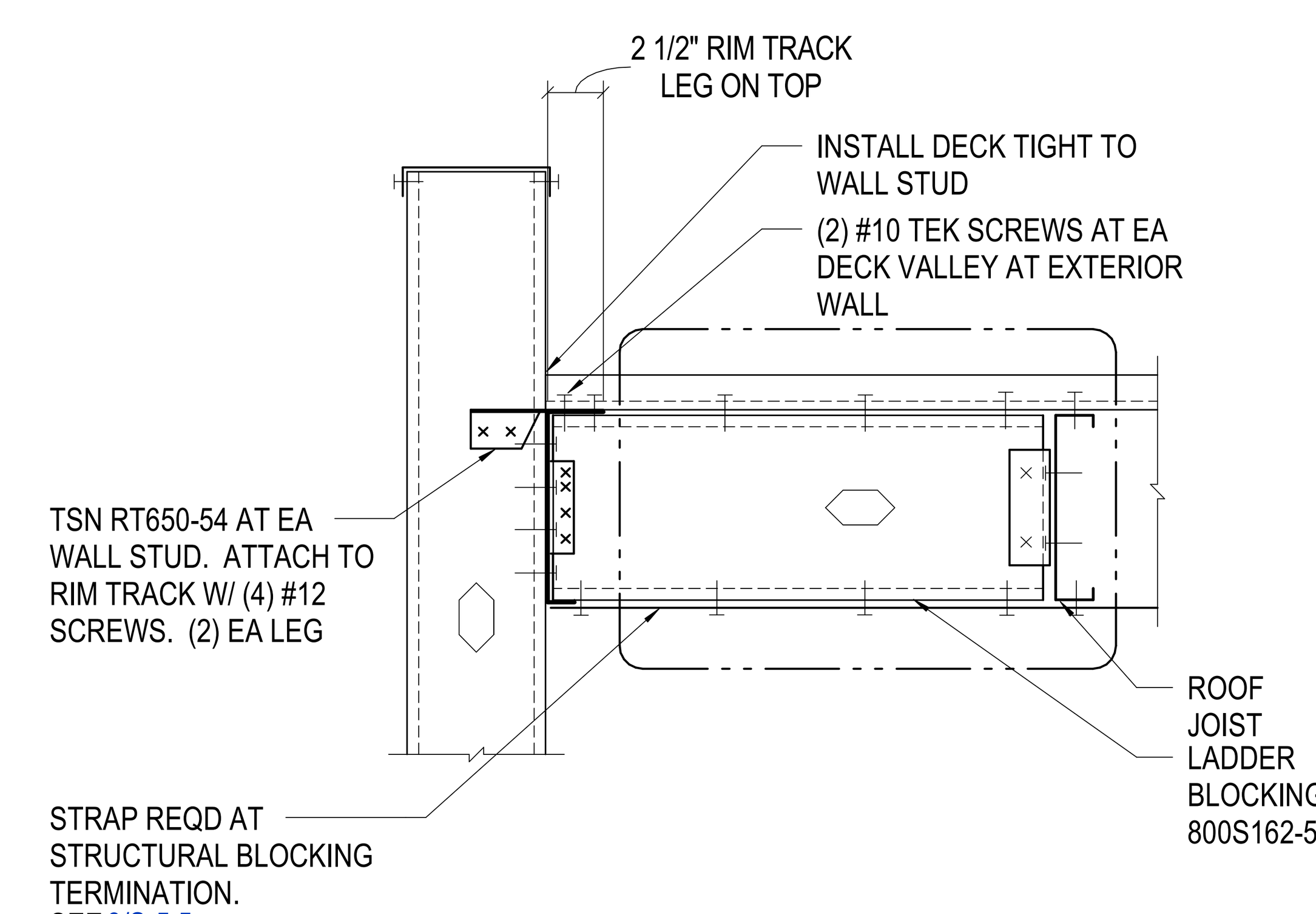
DIAPHRAGM FASTENER SCHEDULE

LEVEL	PANEL THICKNESS	SCREW SIZE	EDGE SCREW SPACING	FIELD SCREW SPACING	NOMINAL DIAPHRAGM SHEAR STRENGTH
FLOOR	23/32"	#8-18	6"	12"	1053 PLF
ROOF	19/32"	#8-18	6"	12"	1053 PLF

NOTES:
1. #8 TEK SCREWS ARE 1 5/8" LONG WITH A 0.363 "Ø HEAD
2. DIAPHRAGM SHEAR STRENGTH IS FOR AN UNBLOCKED DIAPHRAGM WITH ASPECT RATIO = 2:1 MAX



9 TYP CF LB DIAPHRAGM SHEATHING PLAN (FORTACRETE)
S-5.5



3 TYP CF LB BLOCKING AT EXTERIOR WALL
S-5.5

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Project Name:
SOUTHERN TENANT FARMER'S UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents:
CFS JOIST AND RAFTER DETAILS

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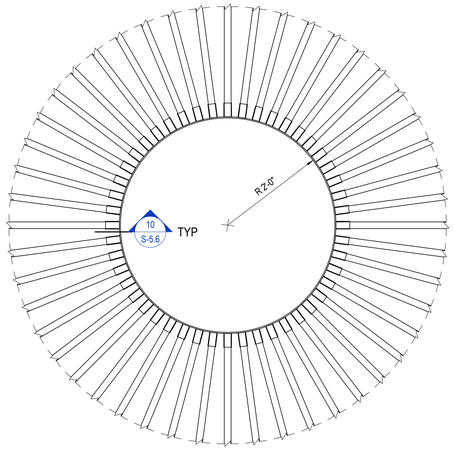
S-5.5



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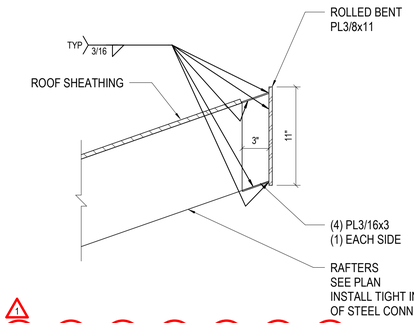
9 COMPRESSION RING PLAN
S-5.6



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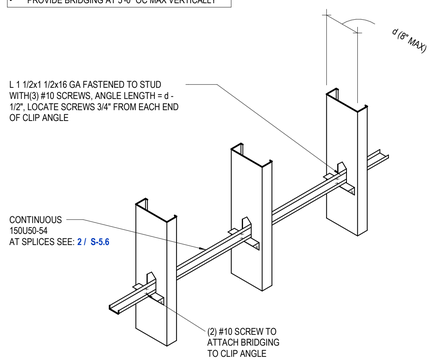
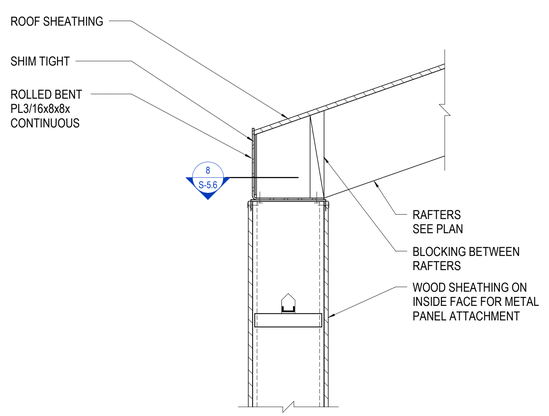
10 GRAIN BIN ROOF AT COMPRESSION RING
S-5.6

NOTES:
- PROVIDE BRIDGING AT 5'-0" OC MAX VERTICALLY



7 TYPICAL WALL BRIDGING
S-5.6



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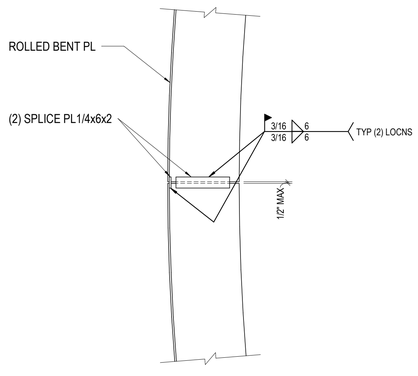
4 GRAIN BIN ROOF AT TOP OF WALL
S-5.6



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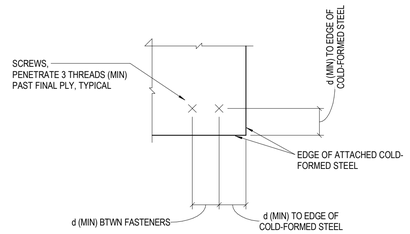
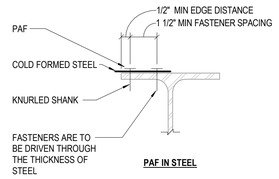
8 TENSION RING SPLICE
S-5.6

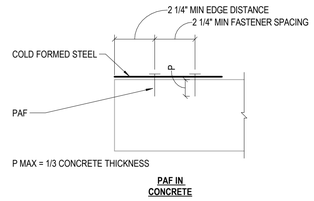
SELF-DRILLING SCREW SIZE	d
#10	5/8"
#12	3/4"



TYPICAL SCREW PLACEMENT

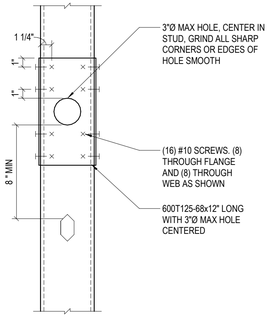


PAF IN STEEL



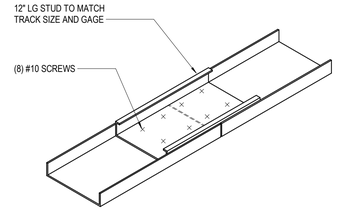
PAF IN CONCRETE

5 TYPICAL FASTENER DETAILS
S-5.6



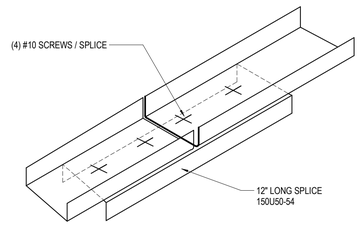
NOTES:
- HOLES MUST BE 12" MINIMUM FROM TOP TRACK, BOTTOM TRACK, AND CONNECTIONS TO STRUCTURE
- HOLES MUST BE 12" MINIMUM APART IN STUD

6 TYPICAL REINFORCING FOR HOLE THROUGH WALL
S-5.6

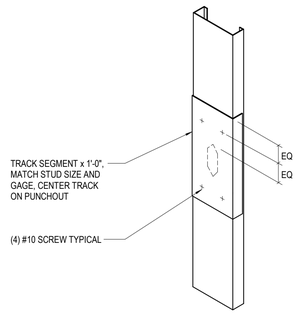


NOTES:
- AT BOTTOM TRACK, SPLICE CENTERED BETWEEN STUDS, STUD SECTION NOT REQUIRED.
- AT TOP DEFLECTION TRACK, SPLICE CENTERED BETWEEN STUDS, STUD SECTION NOT REQUIRED
- AT TOP TRACK OF BYPASS WALL, SPLCE CENTERED ON STUDS OR SPLICE CENTERED BETWEEN STUD WITH STUD SECTION AS SHOWN

1 TRACK SPLICE
S-5.6



2 TYPICAL BRIDGING SPLICE
S-5.6



NOTE:
- REINFORCING REQUIRED WHEN PUNCHOUT LOCATION SPECIFIED IN OTHER DETAILS CANNOT BE ACHIEVED

3 TYPICAL PUNCHOUT REINFORCING
S-5.6

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TYRONZA, ARKANSAS 72386

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Revisions:
1 RE-BID
April 19, 2024

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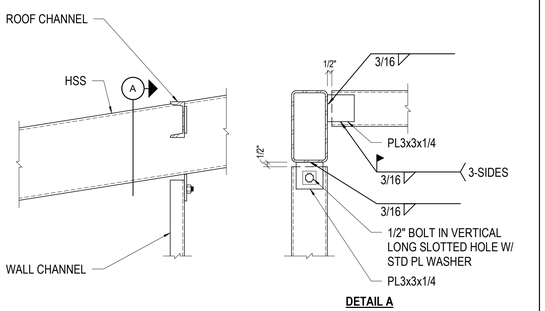
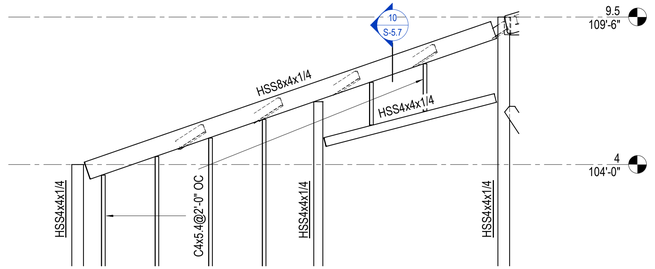
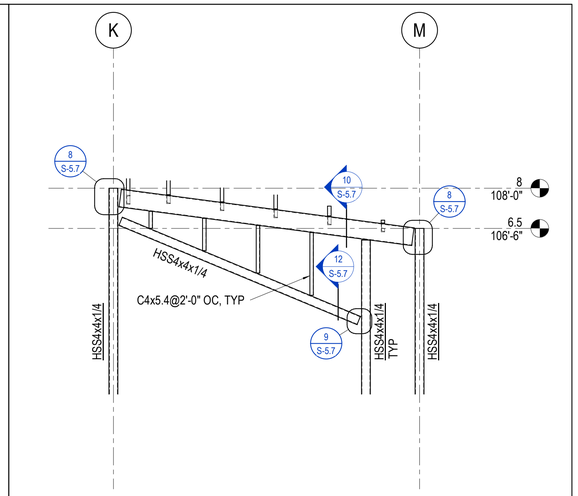
S-5.6



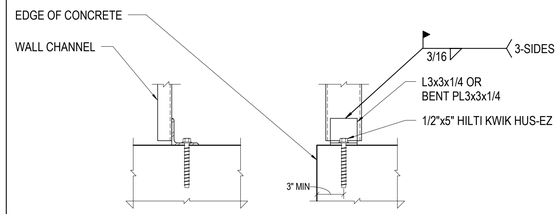
10 TYPICAL CANOPY CONNECTIONS
S-5.7



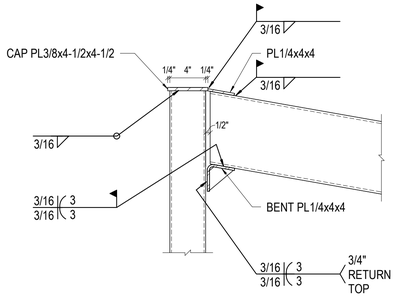
7 CANOPY WALL ELEVATION
S-5.7



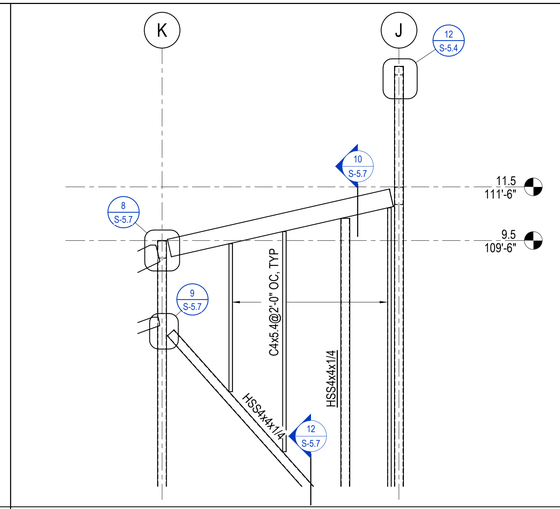
1 CANOPY WALL ELEVATION
S-5.7



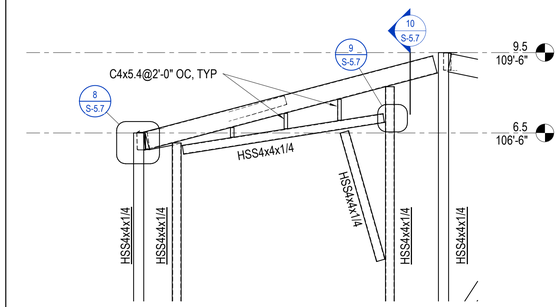
11 WALL CHANNEL BASE CONNECTION
S-5.7



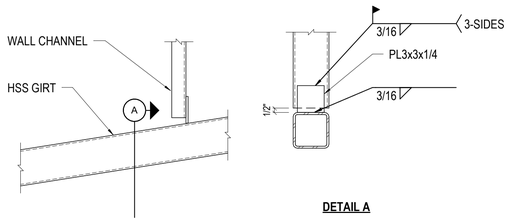
8 TOP OF COLUMN CONNECTION
S-5.7



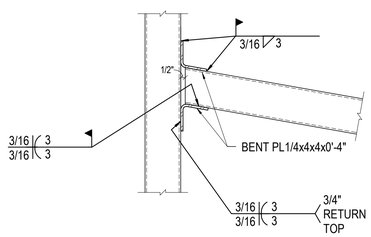
5 CANOPY WALL ELEVATION
S-5.7



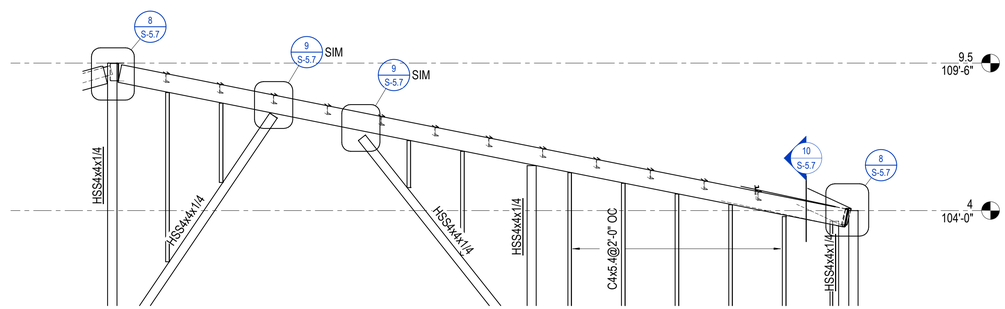
2 CANOPY WALL ELEVATION
S-5.7



12 WALL CHANNEL TO HSS GIRT
S-5.7



9 HSS GIRT CONNECTION
S-5.7



6 CANOPY WALL ELEVATION
S-5.7

REVIVAL ARCHITECTURE
P.O. Box 400, Scott, AR 72142
(501) 951-3316
www.revivalarch.com

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 17203
3/1/24

Project Name:
SOUTHERN TENANT FARMER'S UNION MUSEUM GRAIN BIN RESTORATION
TYRONZA, ARKANSAS 72386

Sheet Contents:
STEEL ELEVATIONS

Issue Date:
March 1, 2024

Revisions:
1 RE-BID
April 19, 2024

Sheet No:
S-5.7

Southern Tenant Farmers Museum
GRAIN BIN RESTORATION

Tyronza, Arkansas

for

ARKANSAS STATE UNIVERSITY

DATE OF ISSUE:

MARCH 1, 2024

RE-BID: APRIL 19, 2024

CONTRACTOR NOTE: CHANGES MADE TO THE DRAWINGS ORIGINALLY ISSUED ON MARCH 1, 2024 ARE HIGHLIGHTED IN THIS SET WITH A "CLOUD" AROUND THE CHANGE. THIS INCLUDES ADDENDA PREVIOUSLY ISSUED, NOW INCORPORATED INTO THIS SET FOR RE-BID.

⚠

NOTE REGARDING EXISTING CONDITIONS:

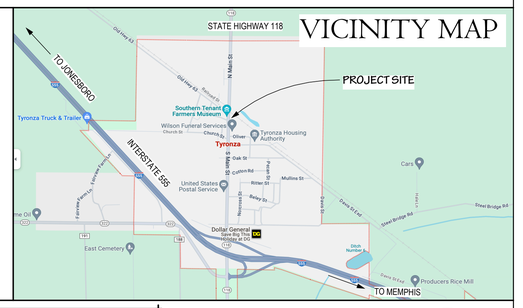
IN ACCORDANCE WITH THE INSTRUCTIONS TO BIDDERS, BIDDERS SHALL VISIT THE BUILDING & THE SITE AND BECOME FAMILIAR WITH LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND HAS CORRELATED THE BIDDER'S PERSONAL OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THIS REQUIREMENT PERTAINS TO BOTH GENERAL CONTRACTORS AND SUBCONTRACTORS ALIKE.

AT THE TIME OF THE BIDDING OF THIS PROJECT, THIS BUILDING WILL BE UNOCCUPIED AND WILL BE MADE AVAILABLE FOR BIDDERS (AND SUB BIDDERS) TO VISIT ANY AND ALL SPACES TO ASSIST IN PREPARING A BID. BIDDERS (AND SUB BIDDERS) ARE ENCOURAGED TO TAKE ADDITIONAL EFFORT IN VISITING ALL SPACES AND LOOKING BEHIND CONCEALED SURFACES SO FAR AS THEY MAY IMPACT THE BIDDERS (AND SUB-BIDDERS) WORK.

NO ALLOWANCE WILL BE GIVEN TO CONTRACTORS FOR "UNFORESEEN CONDITIONS" IF SUCH CONDITIONS COULD BE REASONABLY DISCOVERED AND/OR ANTICIPATED DURING THE BIDDING PHASE AS NECESSARY TO COMPLETE THE WORK DESCRIBED HEREIN.

DRAWINGS INDEX

VICINITY MAP



CODE ANALYSIS

APPLICABLE CODES:

2021 ARKANSAS FIRE PREVENTION CODE (BASED ON THE 2021 INTERNATIONAL BUILDING CODE)

2020 ARKANSAS NATIONAL ELECTRIC CODE
2018ARKANSAS PLUMBING CODE, 9TH EDITION
2018 ARKANSAS FUEL GAS CODE
2021 INTERNATIONAL MECHANICAL CODE

ARKANSAS ENERGY CODE FOR NEW BUILDING CONSTRUCTION SUPPLEMENTS & AMENDMENTS 2014 (REFERENCES ICC 2009 ENERGY CODE).

2017 ICC-ANSI 117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

SUMMARY: THIS PROJECT CONSISTS OF AN APPROX. 1,635 S.F. ADDITION TO AN EXISTING, LARGE GRAIN BIN. IN ADDITION, 1,340 S.F. OF THE EXISTING 1,845 S.F. GRAIN BIN IS BEING CONVERTED TO OCCUPIABLE SPACE BY THE PUBLIC. THUS, RESULTING IN AN APPROX. 2,975 SF BUILDING.

1. OCCUPANCY TYPE- CHAPTER 3:

ASSEMBLY TYPE A-3.

2. TYPE OF CONSTRUCTION- CHAPTER 4 & 6: TYPE IIB, NON-SPRINKLERED

3. AREA & HEIGHT LIMITATIONS: 9,500 S.F. (TABLE 506.2) 55' IN HEIGHT (504.3) , TWO STORIES (504.4) MAX. ALLOWABLE.

4. FIRE RESISTANT CONSTRUCTION- CHAPTER 7:
TABLE 601- ASSEMBLIES: HOURLY RATING/ NOTES

PRIMARY STRUCTURAL FRAME MEMBERS: NONE
BEARING WALLS EXTERIOR: NONE
BEARING WALLS INTERIOR: NONE
NON BEARING WALLS AND PARTITIONS EXTERIOR: NONE (FIRE SEPARATION > 30')
NON BEARING WALLS AND PARTITIONS INTERIOR: NONE/ UNLESS OTHERWISE REQ'D BY CODE
FLOOR CONSTRUCTION & ASSOC. SECONDARY MEMBERS: NONE
ROOF CONSTRUCTION & ASSOC. SECONDARY MEMBERS: NONE

CORRIDOR FIRE RESISTIVE RATING IBC TABLE 1020.2: A-3, NON-SPRINKLERED, CORRIDOR SERVING GREATER THAN 30 OCCUPANTS: 1-HR RATING REQ'D. OPENINGS IN FIRE PARTITION TO BE 20 MIN. RATED.

MEANS OF EGRESS:
2975 S.F. TOTAL OF WHICH:
1340 IS A-3 / 5 NET = 268 OCCUPANTS MAX.
1635 IS B/ 150 GROSS = 11 PERSONS THUS, 279 PERSONS MAX. LOAD.

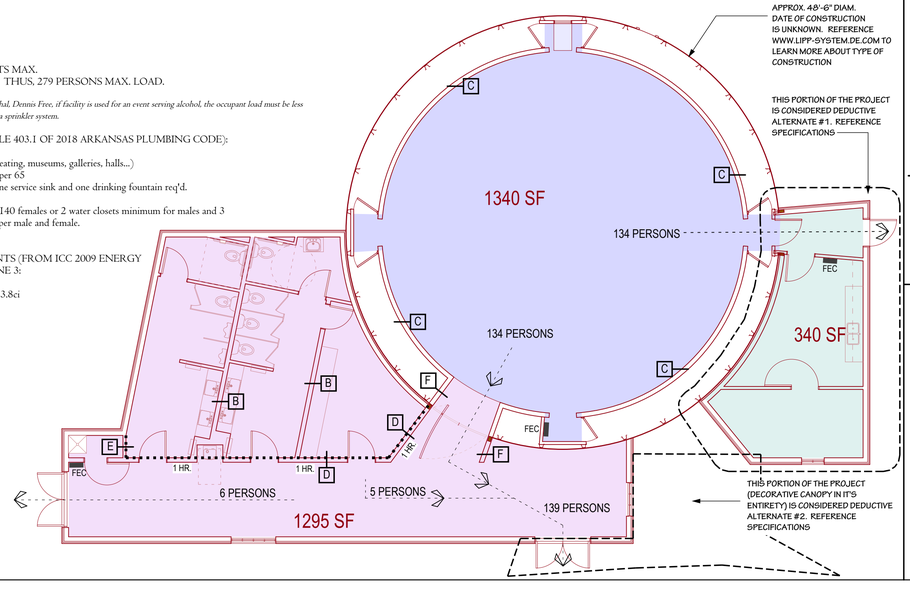
Note: As determined by the Arkansas State Fire Marshal, Dennis Free, if facility is used for an event serving alcohol, the occupant load must be less than 100 persons unless the building is provided with a sprinkler system.

BATHROOM FIXTURE COUNT (TABLE 403.1 OF 2018 ARKANSAS PLUMBING CODE):

ASSEMBLY (auditoriums w/o permanent seating, museums, galleries, halls...)
Water Closets- male: 1 per 125/ females: 1 per 65
Lavatories- 1 per 200 male and female. One service sink and one drinking fountain req'd.

Thus: 279 occupants/ 2 = 139 males and 140 females or 2 water closets minimum for males and 3 minimum for females. 1 lavatory minimum per male and female.

BUILDING ENVELOPE REQUIREMENTS (FROM ICC 2009 ENERGY CODE TABLE 502.2 (1), CLIMATE ZONE 3:
Insulation entirely above roof deck: R-20ci.
Metal framed walls above grade: R-13 + R-3.8ci
Slab on grade, unheated slabs- NR



REVIVAL ARCHITECTURE
P.O. Box 400, Scott, AR 72142
(501) 951-3316 www.revivalarch.com S.D.G.

AARON C. RUBY, AIA
REVIVAL ARCHITECTURE, INC.
ARKANSAS LICENSE # C774

I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION.
I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE PLANS AND SPECIFICATIONS ARE AS REQUIRED BY LAW AND IN COMPLIANCE WITH THE ARKANSAS FIRE PREVENTION CODE.

REGISTERED ARCHITECT — REVIVAL ARCHITECTURE — LICENSE #C774 — STATE OF ARKANSAS

STRUCTURAL ENGINEER	MECHANICAL ENGINEER	ELECTRICAL ENGINEER
Continuum Engineering, LLC 1602 SW Hamilton Ave. Bentonville, AR 72713	Tru Engineering, LLC 708 N. Charles St. Searcy, AR 72143	Insight Engineering, PLLC 322 S. State St. Ste. 201 Little Rock, AR 72201

PARTITION SCHEDULE

GENERAL NOTES:

1.) UNLESS NOTED OTHERWISE, ALL PARTITIONS IN THE PROJECT ARE TYPE "A".

2.) PROVIDE 3 1/2" SOUND BATT INSULATION FOR ALL PARTITIONS SURROUNDING RESTROOMS.

3.) USE MOISTURE RESISTANT GYP.BD. ON WET WALLS IN RESTROOMS.

4.) CONTRACTOR SHALL PROVIDED TREATED 2X WOOD BLOCKING IN ALL INTERIOR AND EXTERIOR WALLS RECEIVING GRAB BARS OR CABINETS.

LEGEND

- 1 HR. RATED PARTITION
- 2 HR. RATED PARTITION
- C — PARTITION KEY- REFER TO PARTITION SCHEDULE
- PATH OF EGRESS
- FEC — FIRE EXTINGUISHER CABINET AS SPECIFIED

VERIFY LOCATION OF ALL CABINETS WITH ARCHITECT & FIRE MARSHAL PRIOR TO INSTALL

TYPE "A" (NON-RATED, NON-LOAD BEARING)

3 5/8" 20 GA. MTL. STUDS @ 16" O.C. WITH ONE LAYER OF 5/8" GYP. BD. EACH SIDE. STUDS TO DECK, GYP. BD. TO 6" ABOVE ADJACENT CEILING.

TYPE "B" (NON-RATED, LOAD-BEARING)

6" ___ GA. MTL. STUDS @ 16" O.C. WITH ONE LAYER OF 5/8" GYP. BD. EACH SIDE. ENTIRE ASSEMBLY TO DECK.

TYPE "C" (NON-RATED, LOAD-BEARING)

6" ___ GA. MTL. STUDS FOR TALL WALLS IN NEW BIN.

TYPE "D" (1-HR-RATED, LOAD-BEARING)

6" ___ GA. MTL. STUDS AT EAST WALL OF GALLERY 100A. CONSTRUCT IN ACCORD. WITH UL # _____

TYPE "E" (1-HR-RATED, NON- LOAD BEARING)

3 5/8" 20 GA. MTL. STUDS @ 16" O.C. WITH ONE LAYER OF 5/8" GYP. BD. EACH SIDE. STUDS TO DECK, GYP. BD. TO 6" ABOVE ADJACENT CEILING CONSTRUCT IN ACCORD. WITH UL # _____

TYPE "F" (NON-RATED, NON-LOAD BEARING)

6" ___ GA. MTL. STUDS